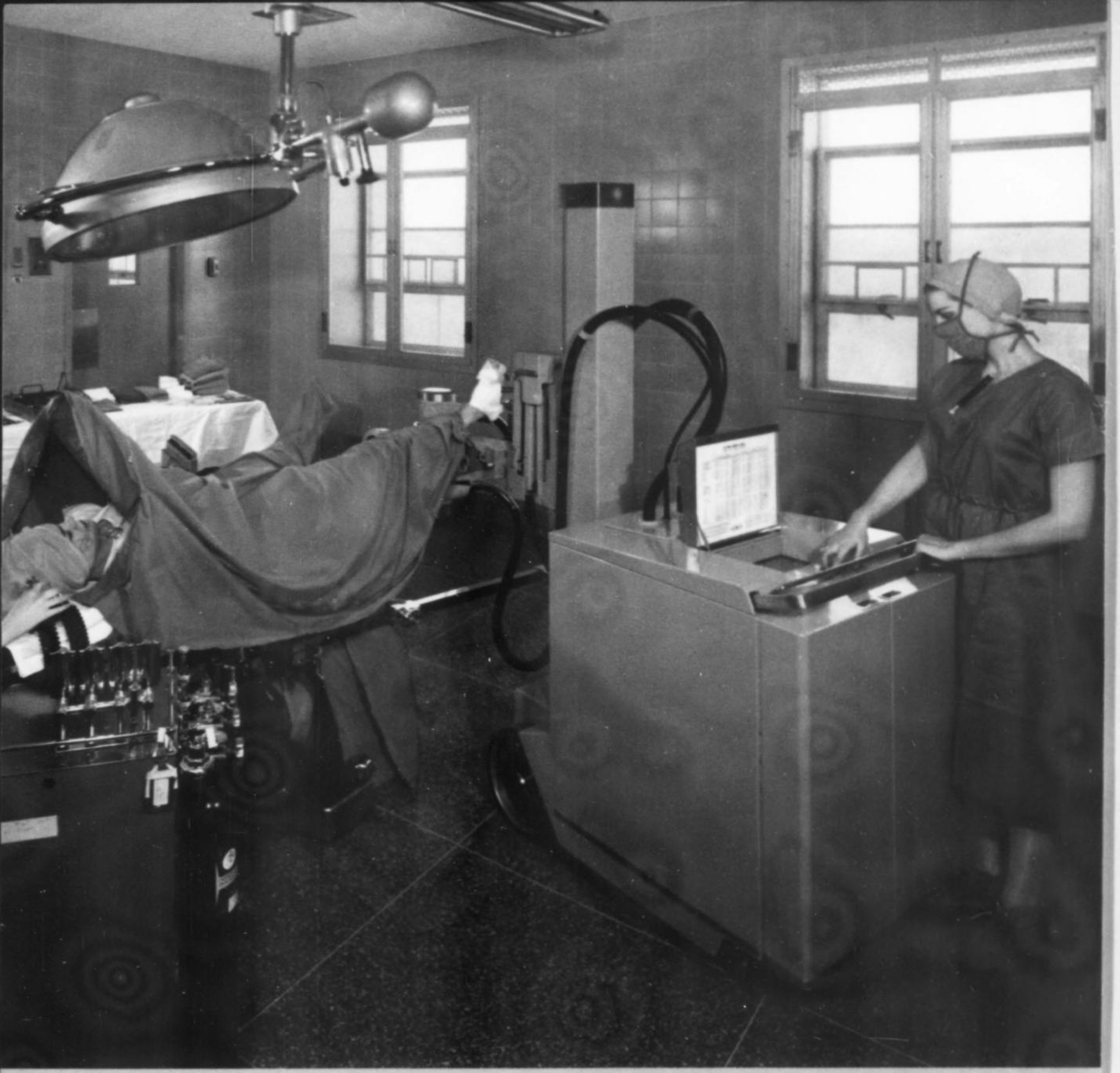
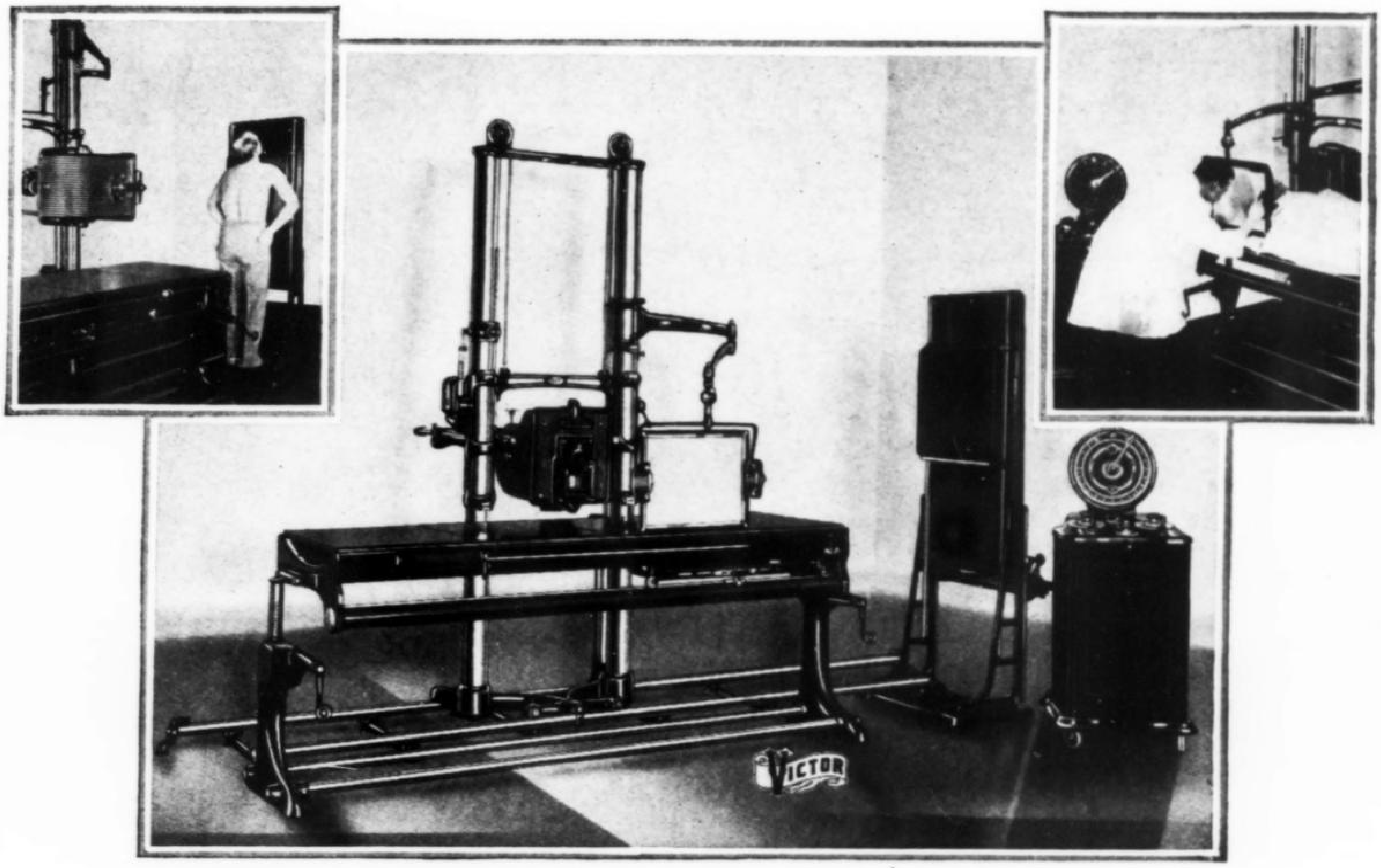


# General Electric Mobile EP-300

Provides the extra maneuverability required for radiography of the *immobile* surgical patient . . . power for the heaviest parts . . . speed, with simplified controls . . . and safety in locations where anesthetics are being used.

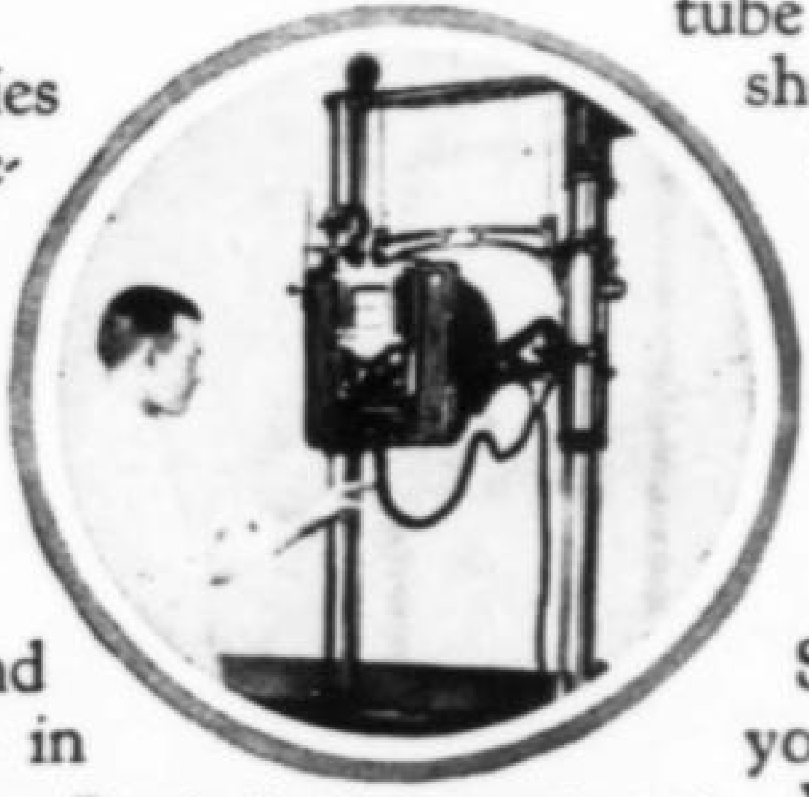


# The Victor Shock Proof Oil Immersed X-Ray Unit is Compact to a New Degree

THE compactness of the Victor Shock Proof X-Ray Unit is a feature that will appeal to many who have to contend with the problem of limited space.

The complete Victor unit occupies a space not much larger than is required for an x-ray table. Now it becomes possible to render a complete diagnostic service . . . vertical, horizontal and angular radiography, fluoroscopy and orthodiagraphy . . . in one room.

This feature of completeness and compactness is one of many ways in which this latest Victor unit represents an advance over anything in the entire field.



*The only electrical connection to the apparatus proper is this insulated cable which brings the low voltage line current to the transformer in the tube head, much the same as a cable is used to conduct current to other electrically operated equipment in the office or laboratory.*

it is a feature second in importance only to the SAFETY of this new unit. By sealing the x-ray tube and the high tension transformer in one single tube head, insulated in oil, all danger of shock is eliminated. For there is no high tension current developed except inside this container! The result is a 100% electrically safe x-ray unit.

No development in the field of roentgenology since the Coolidge tube has attracted so much favorable comment as has this Victor Shock Proof X-Ray Unit. Wouldn't you like the complete facts about it? We have published them in an attractive illustrated booklet, a copy of which we will mail on request.

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**X-RAY CORPORATION**
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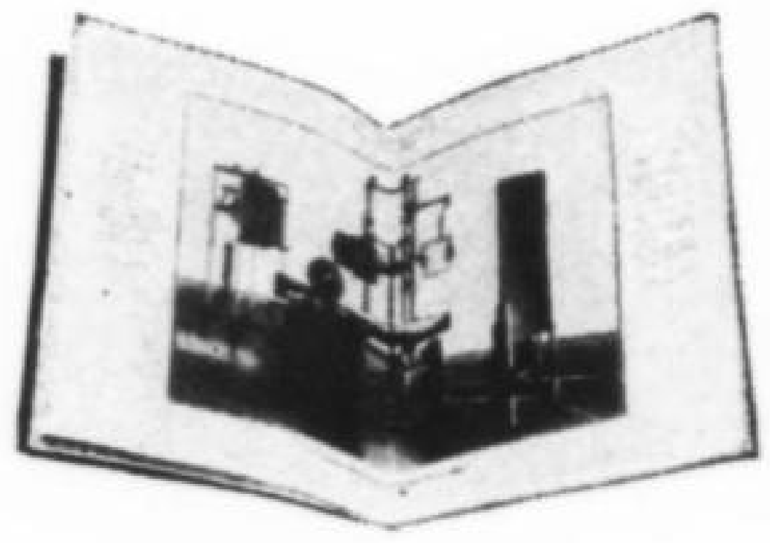
# The Whole Story of The Victor Shock Proof X-Ray Unit

***is in this booklet. A copy is yours for the asking.
Write for it. See bottom of page.***



"AN epochal development in the x-ray art." "An improvement second in importance to the development of the Coolidge tube itself."

These are the terms that have been used by prominent authorities in describing the Victor Shock-Proof X-Ray Unit. No development in the field of roentgenology has attracted more attention than this. Whether or not you are at present considering purchase of x-ray equipment, there is so much of interest . . . so much that you should know . . . in the story of this new x-ray unit that this beautifully illustrated brochure should be in your hands.

Write for your copy now. You will find the booklet worth reading and will want to keep it in your files. For your convenience, we have arranged this page so that you can sign your name and address below, clip and mail. Send without delay and we'll put your copy in the mails at once.

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Please send me a copy of your brochure on the Victor Shock-Proof X-Ray Unit.

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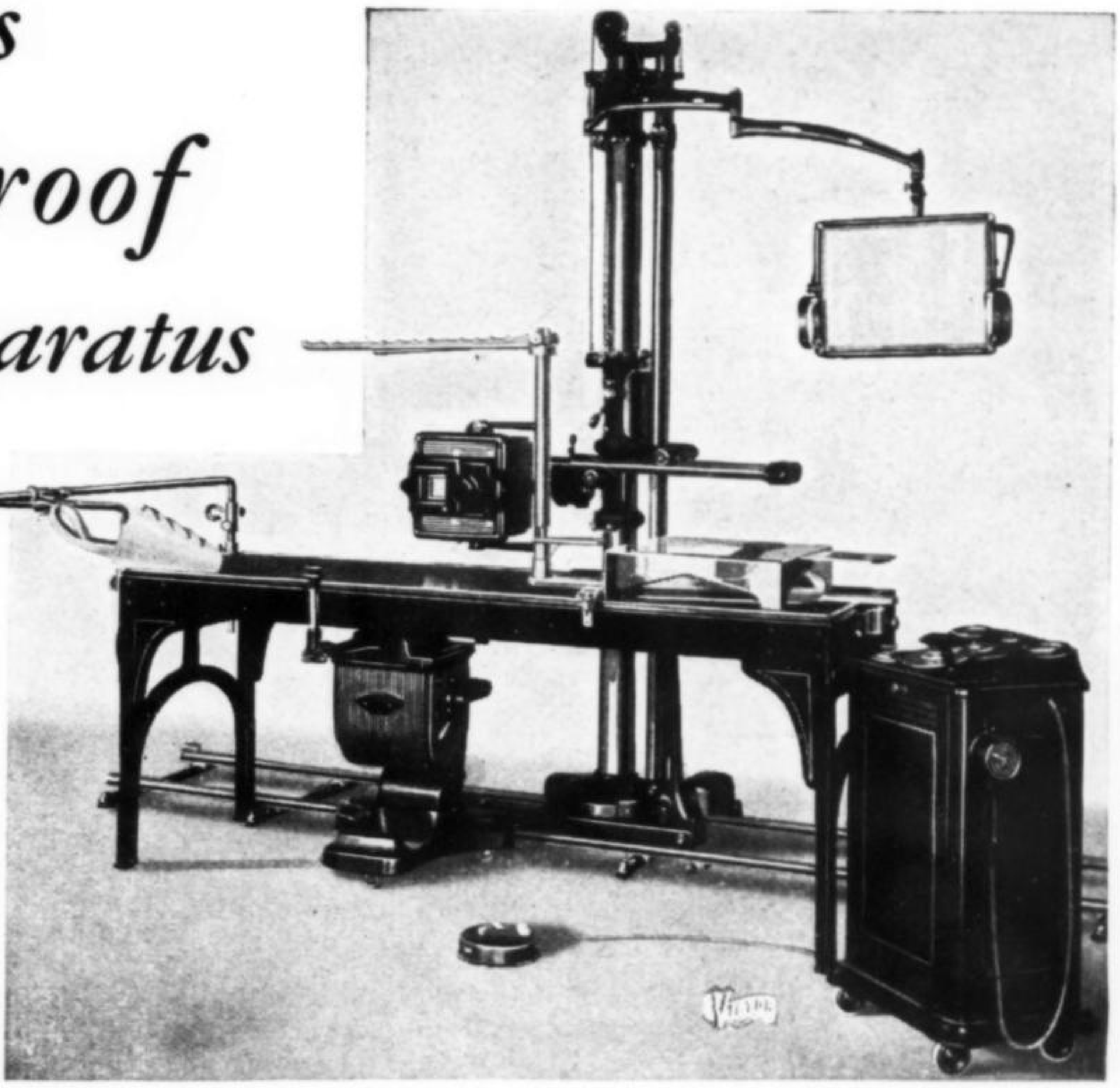
# A Boon to Fracture Work

## —*this*

## *Shock Proof*

## *X-Ray Apparatus*



This illustration shows the Victor Model B-26 Shock-Proof X-Ray Unit in position for bi-plane fluoroscopy, with two tube heads, for directing the x-rays from below and crosswise the table, respectively. Note how the McCutchen Fracture Device is adapted to the table. The fluoroscopic screen (at upper right in picture) is swung down into position for observation in either plane; through the two-way foot switch on the floor the operator energizes either tube head at will.

EVERY surgeon knows the limitations with x-ray apparatus in fracture work, when constant vigilance has been necessary lest he or his patient come in contact with some part of the high tension circuit. Because of this he has had to forego certain radiographic and fluoroscopic views of the fracture, regardless of their importance to diagnosis and prognosis.

That day is past, however, since the advent of Victor Shock-Proof X-Ray Apparatus. Think of the advantage of being able to view any part of the body, from every conceivable angle, without regard to the proximity of the high tension circuit to the operator, or his assistant, or the patient—without any danger whatsoever of electrical shock.

By placing the Coolidge x-ray tube and the x-ray transformer in a grounded and sealed container filled with insulating oil, a shock-proof and fool-proof x-ray apparatus is realized. This feature of safety has not been at the sacrifice of flexibility; to the contrary, it has made the Victor unit capable of viewing the various regions of the body in positions and from angles which heretofore have been impossible due to attendant dangers of the high tension circuit. Furthermore, the complete insulation of the high tension circuit in Victor shock-proof apparatus makes it the safest to use in the presence of ether vapor.

Consider how the handling of some cases will be facilitated, when a fracture may be viewed fluoroscopically in two planes, without having to change the position of the patient. This is accomplished with one shock-proof tube head below the table, another at the side directing the rays crosswise the table. A two-way switch energizes the two tube heads alternately, while the suspended fluoroscopic screen is quickly adjusted to either plane during observation.

With a fracture setting device adapted to the table, Victor shock-proof equipment is truly the last word in x-ray facilities for the fracture specialist.

To fully appreciate the significance of this development, you should read the complete descriptive literature, which we will gladly send on request.

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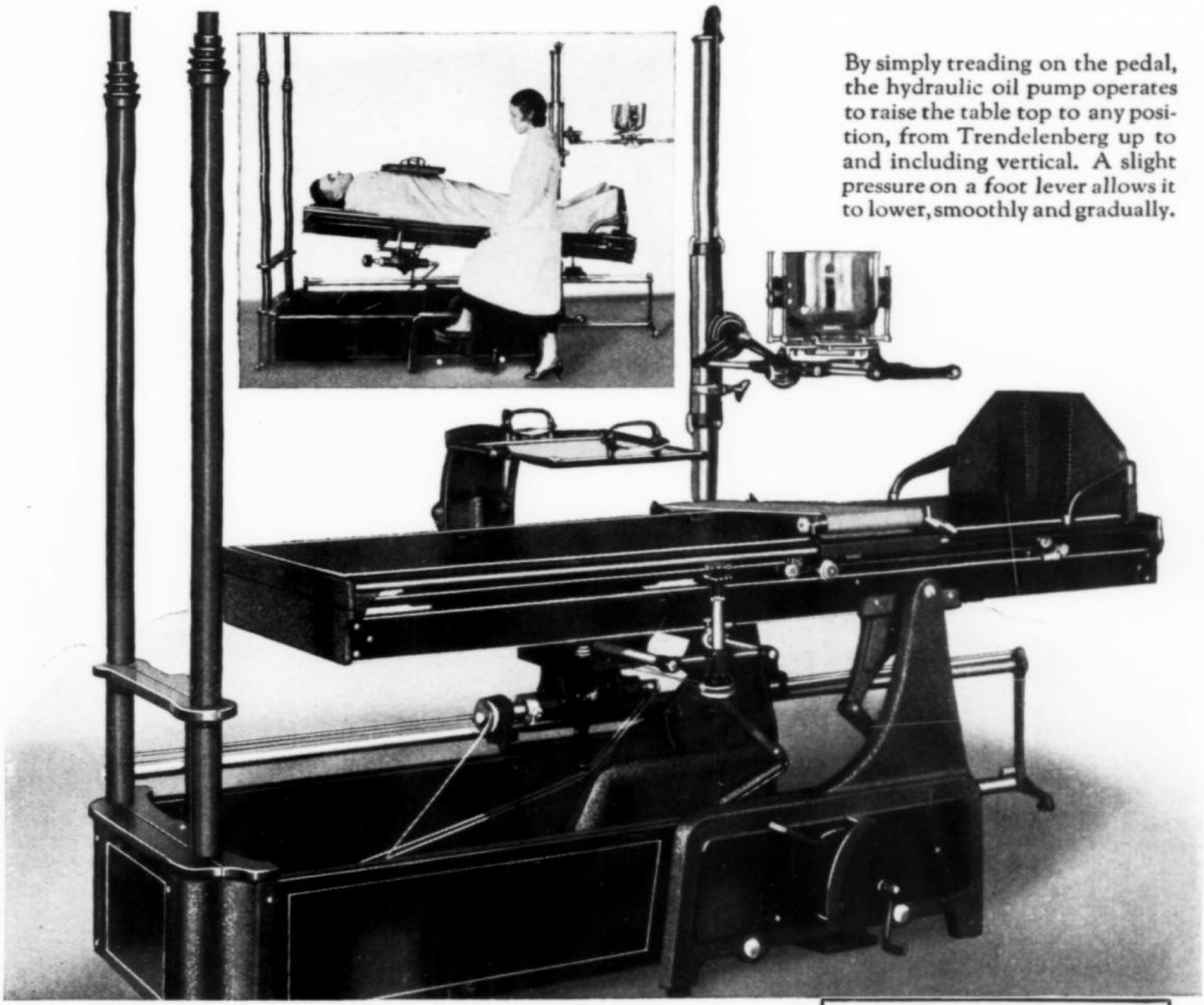
# A new flat Bucky Table with hydraulic power



By simply treading on the pedal, the hydraulic oil pump operates to raise the table top to any position, from Trendelenberg up to and including vertical. A slight pressure on a foot lever allows it to lower, smoothly and gradually.

THE principle of hydraulic power as here applied for tilting the table top, is an innovation in the diagnostic table. Operated by foot, it leaves the hands free for manipulation of the patient. The flexibility, practicability and all-round efficiency of this new development are bound to be appreciated by every roentgenologist.

*Write for detailed description*

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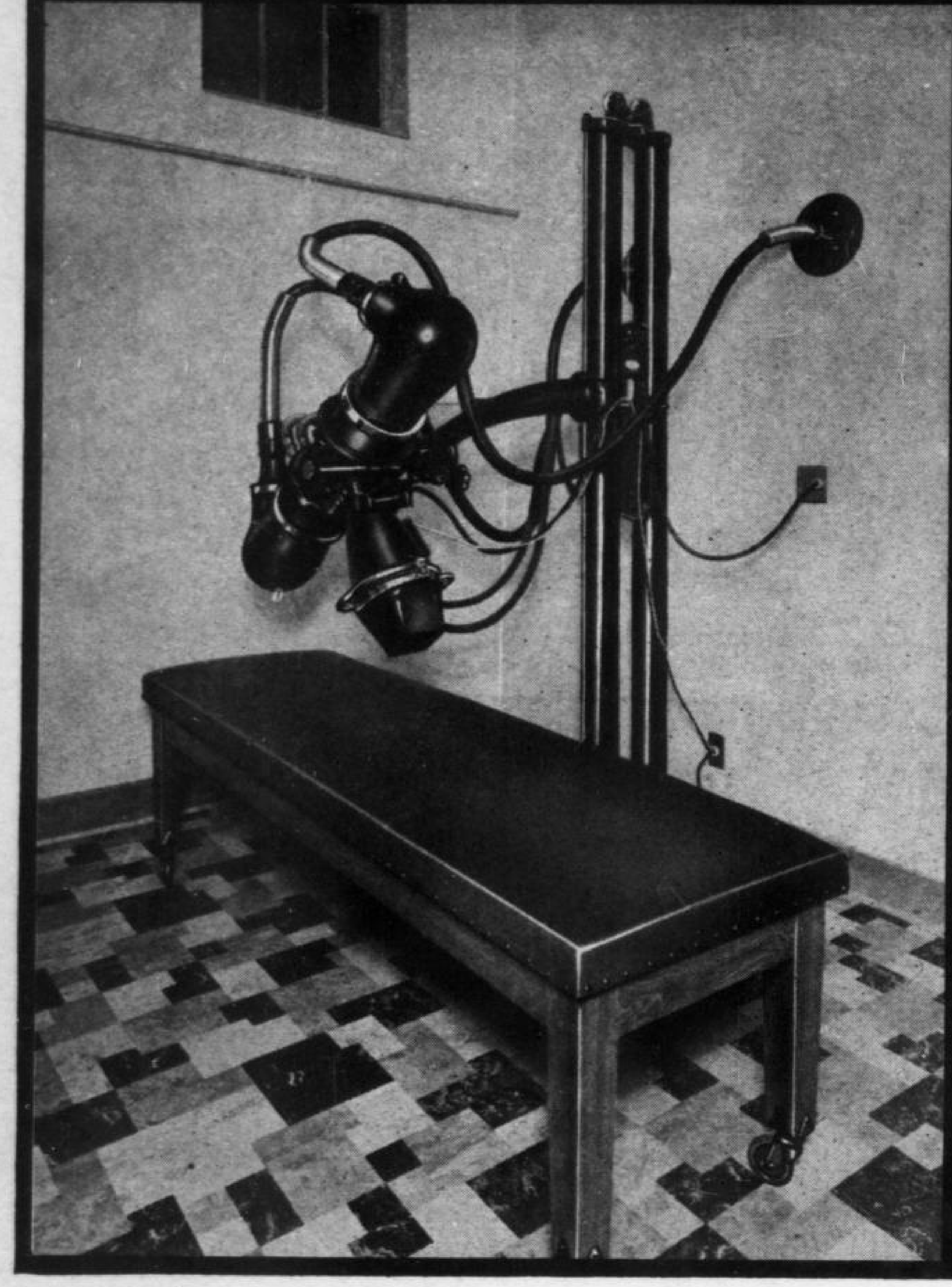
## FEATURES

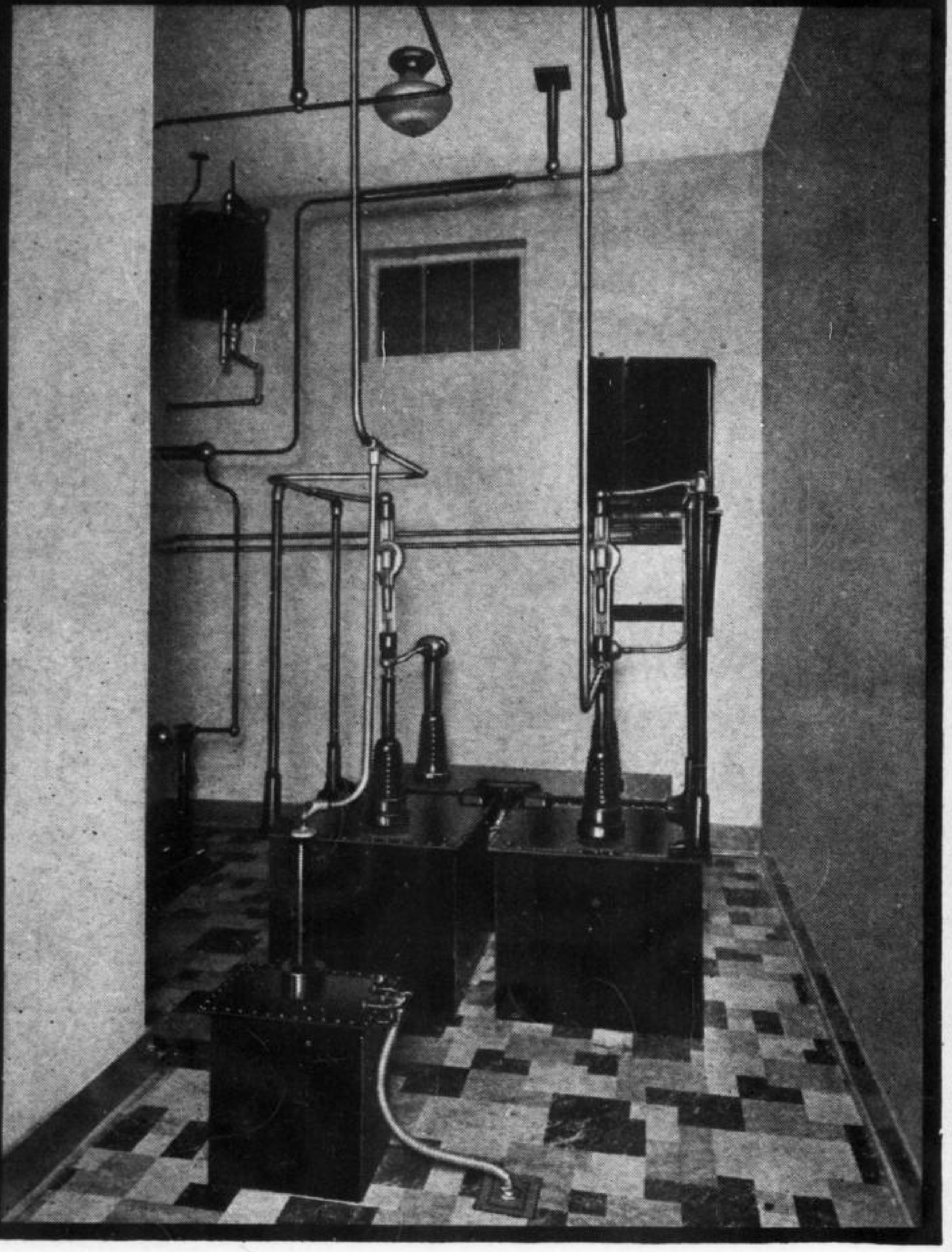
Hydraulic Tilt
Foot Operated
Noiseless Operation
Flat Bucky
Improved design of fluoroscopic screen staging
Improved Tube Stand and side rails with horizontal stereo shift
New Immobilization Device
Moderate Price

# EACH G-E THERAPY INSTALLATION IS INDIVIDUALLY PLANNED

## *For Highest Operating Efficiency*



*The Treatment Room, showing 200 kv. Coolidge tube completely oil-immersed and sealed in its shockproof container.*



*G-E 200 Kv. Therapy Unit, Model KX-3, as installed at St. James Hospital, Butte, Montana (5,576 feet above sea level).*

WHEN you buy equipment for x-ray therapy, one of the first considerations is its satisfactory operation—the number and quality of roentgen units that it will deliver per minute.

But a capacity rating based on average climatic conditions is not enough. You want assurance that the apparatus installed will consistently produce this energy under the climatic conditions which prevail in your particular locality.

The illustrations show the G-E Model KX-3, 200,000-volt therapy installation recently completed for St. James Hospital, Butte, Montana. Even though located 5,576 feet above sea level, this equipment operates at its full normal rating of 200,000 volts, 25 ma., and 220,000 volts, 20 ma. Thus the hospital is using it to the same advantage as might any other institution.

KX-3 installations are also operating in this same consistent manner despite the excessive humidities of seaboard localities, such as Miami and Tampa, Florida; San Diego and La Jolla, California. In all parts of the world, in fact, G-E therapy installations are operating unlimited by high humidity or high altitude.

Whether for 200,000-volt or 400,000-volt x-ray therapy, you can rely on G-E equipment for consistent performance. Let us help you plan the most practical and economical therapy installation for your particular requirements.

*Address Dept. F12*

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# Hospitals are turning to

**A BLOOD BANK PIONEER . . .**

## . . . in New York . . . in Philadelphia

## . . . THROUGHOUT THE COUNTRY!

WHY are so many hospitals turning to General Electric refrigeration for preserving whole blood, wet plasma, and frozen plasma?

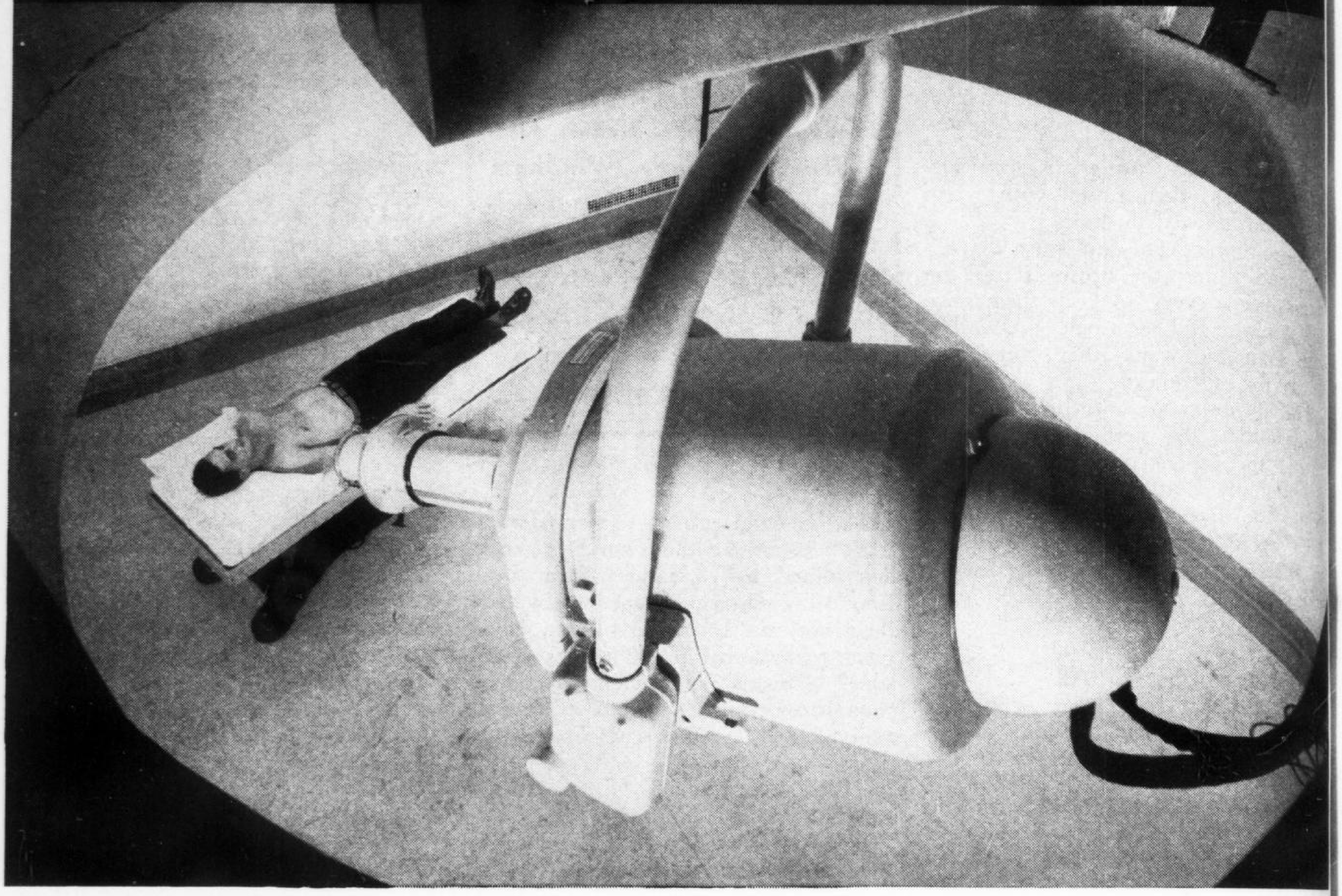
Perhaps this is the answer: G-E refrigeration was used in the pioneering installations made in New York City four years ago, when transfusions *without delay* became a reality. Since then a score of similar installations have been made in New York hospitals. Philadelphia has followed with five G-E blood banks. And other cities, too, from coast to coast.

The dependability of G-E blood bank equipment is proving itself in operation, month after month, year after year.

G-E experience in planning blood banks is at your disposal. Your G-E Dealer can supply you with full data. Consult the Classified section of your Telephone Directory for his name, or write to General Electric, Air Conditioning and Commercial Refrigeration Dept., Division 26711, Bloomfield, N.J.

**GENERAL ELECTRIC**

# ANOTHER WAR-BORN DEVELOPMENT



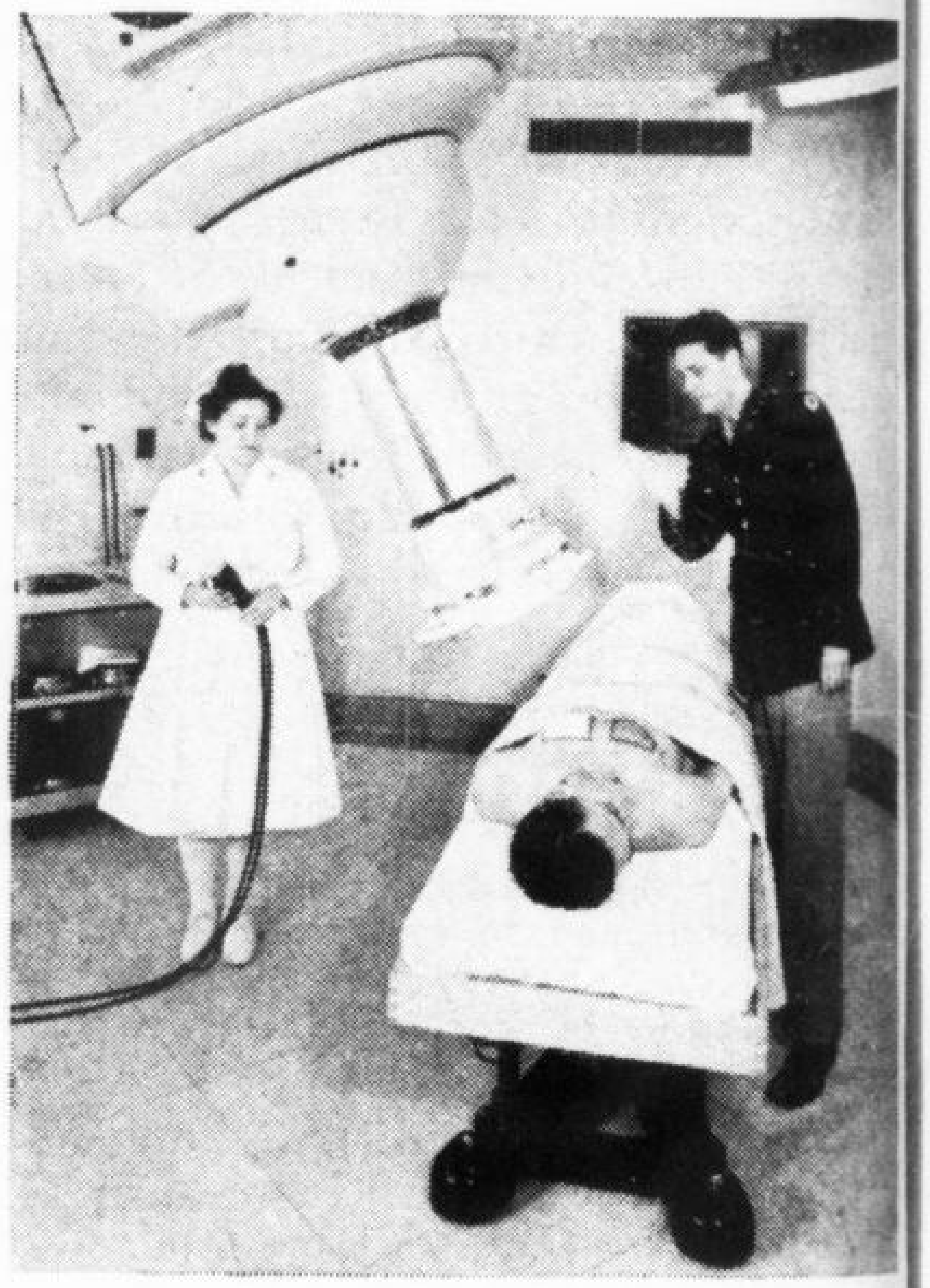
Here's an interesting view of the G-E Million-Volt X-Ray Therapy Unit installed a few months ago at the Army Medical Center, Walter Reed General Hospital, Washington, D. C.

You no doubt have read about G-E million-volt therapy units before (this being the fourth installation in the United States,) but in this photograph you will readily see how further development has increased utility and flexibility of application to a degree comparable with that of considerably lower-powered therapy equipment.

This epochal development, through which medical science is also deriving immediate benefits, was originally engineered for war industries to facilitate million-volt x-ray inspection of fighting equipment in routine production, to thus insure its maximum effectiveness and safety in use. The unit differs from its predecessors essentially in the new sealed-off x-ray tube which, because it eliminates the need of an evacuating system, has made possible the remarkable flexibility of application here obtained. Just think of being able to accurately adjust this million-volt tube head to any desired height and angle by the simple operation of a push-button hand switch.

The new attainments of G-E engineering in meeting various emergency war needs will, you may be sure, be applied to full advantage in G-E equipment to come.

Let us help you draw up plans for the modernization of your present x-ray facilities.



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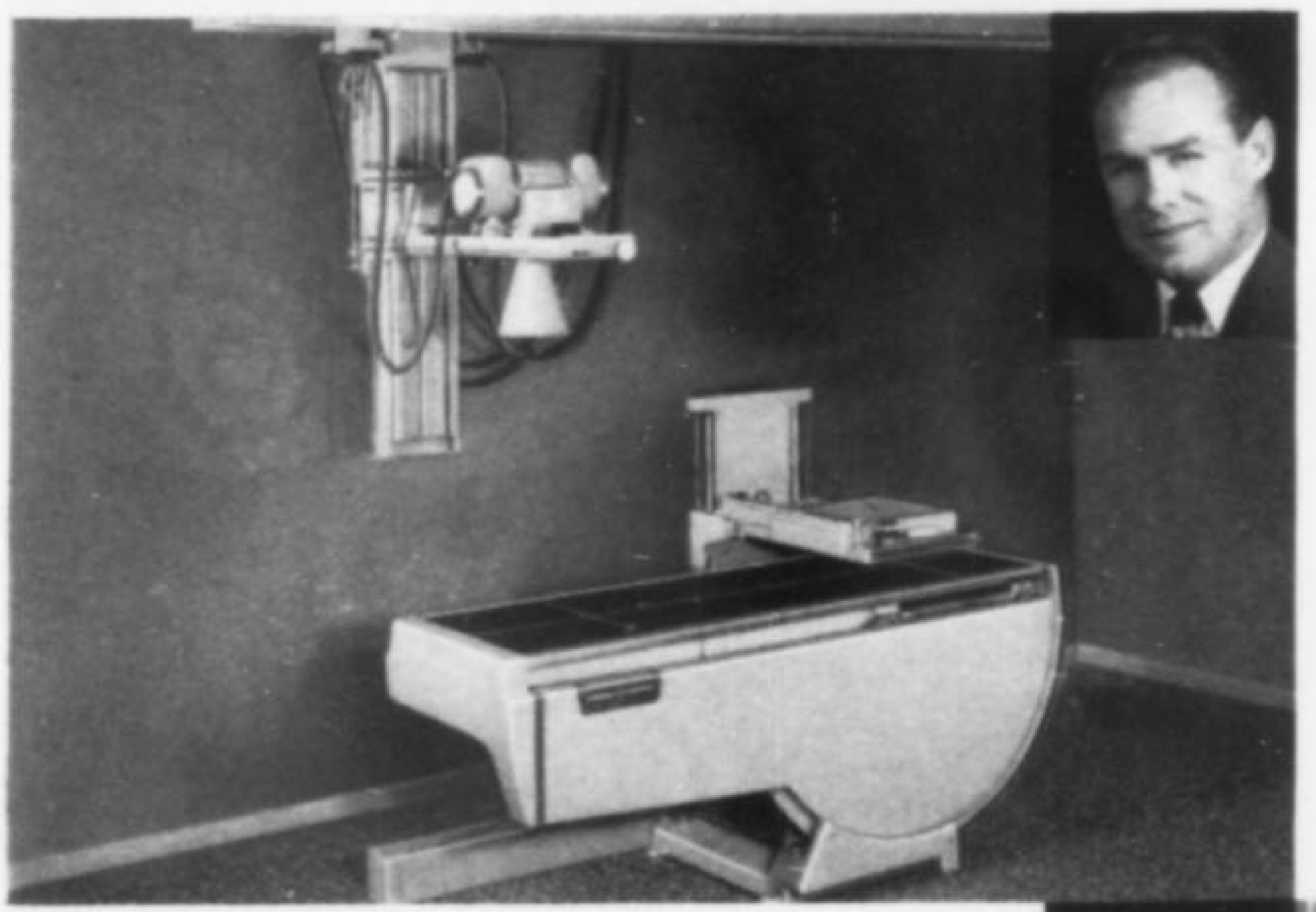
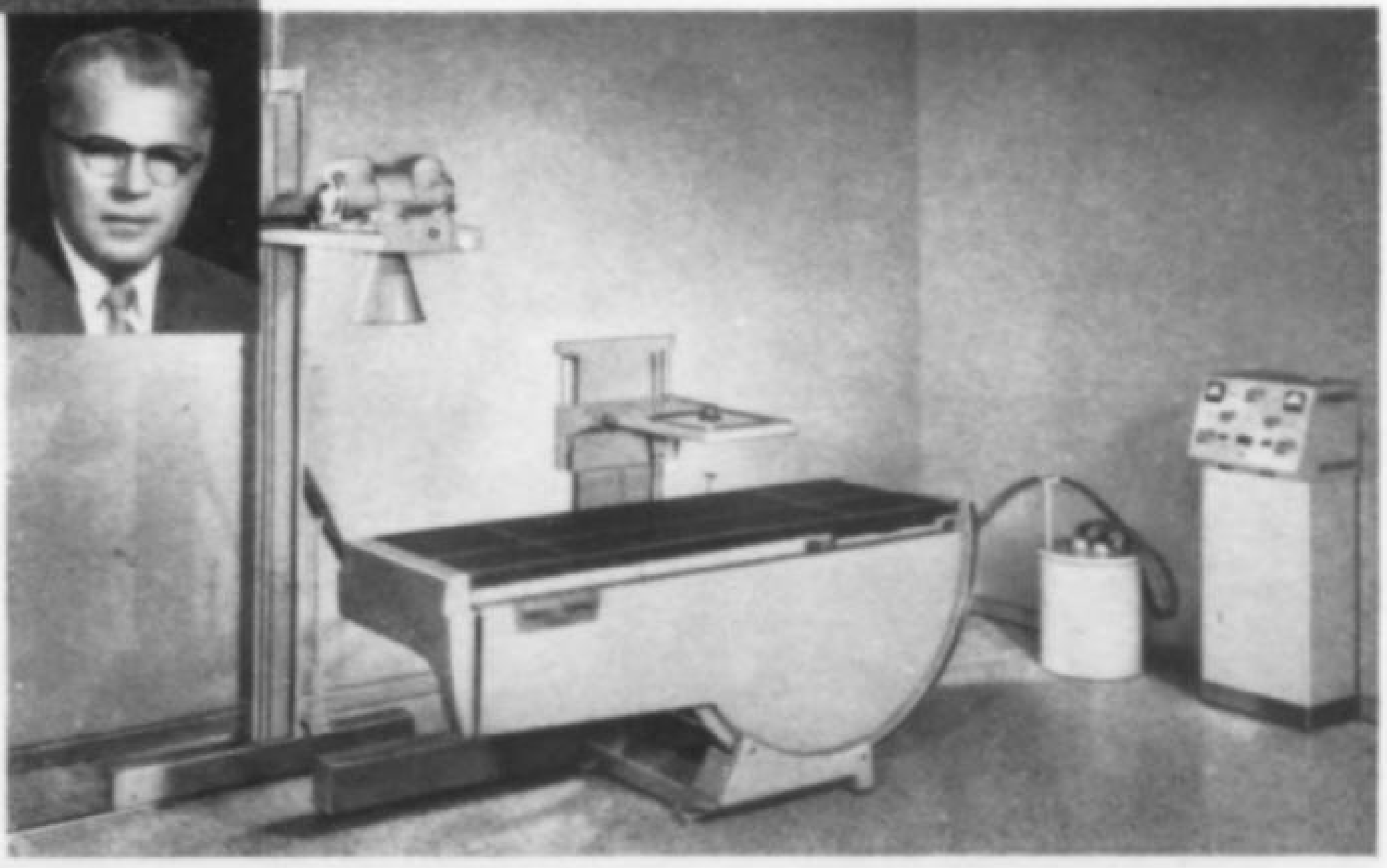


### THE ARISTOCRAT

"I call the Aristocrat a *lot* of x-ray equipment for the price," says J. W. Heller, Topeka, Kan. "I often recommend its economy for both private and hospital practice — who can match it? Full diagnostic range . . . 15° Trendelenburg table . . . overhead tube hanger . . . automatic spot-film device . . . sealed spot-film phototimer. Aristocrat has the features radiologists need! They like the full-size table too . . . aren't forced to shove patients into freak positions. Of course, they also appreciate the backing of traditional General Electric cooperation when they need to call on us."

### THE PATRICIAN

"The Patrician's low cost comes as a big surprise to many radiologists," says T. B. Moore, El Paso, Texas. ". . . Makes it easy for me to fit a new G-E unit into the most modest budget. And here's a natural where hospitals want to increase patient-handling capacity. Just as low-cost autos encouraged two-car families, the Patrician makes it really practical to add an extra x-ray unit. Look at what it offers — full-size table . . . independent tube stand . . . rotating anode tube . . . fluoroscopic screen or spot-film unit. With 200-ma power, it can be purchased at a price that makes it foolish to settle for less!"



*Progress Is Our Most Important Product*

**GENERAL ELECTRIC**

*For additional information, use postcard facing Cover 3.*

# ...today's best buy in islands

***General Electric's Regent freestanding "island" table and new overhead tube hanger — dramatically improved operating facilities for the diagnostic x-ray room***

*General*

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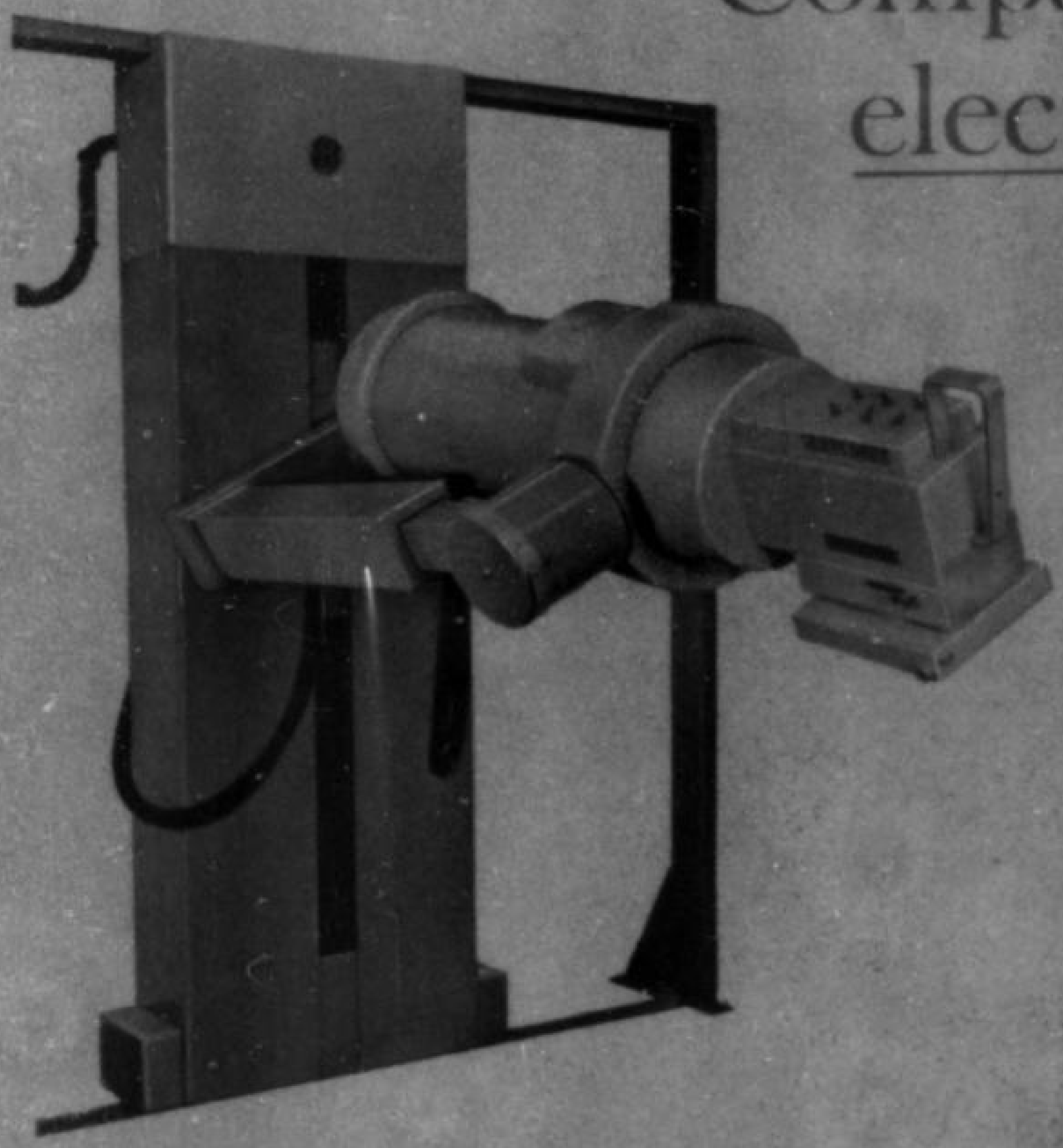
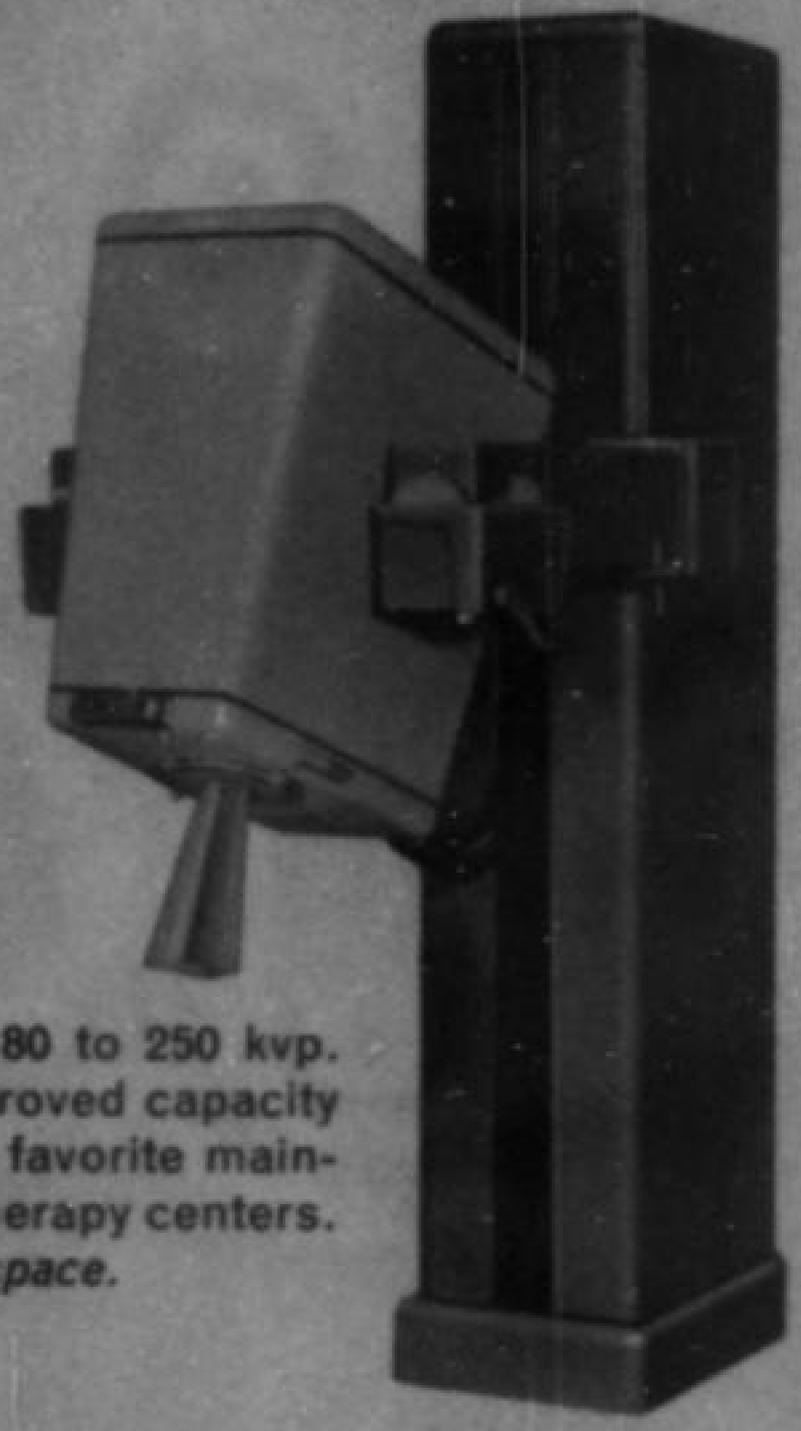
# DEEP, INTERMEDIATE AND SUPERFICIAL THERAPY

## Compare these powerful electronic x-ray sources



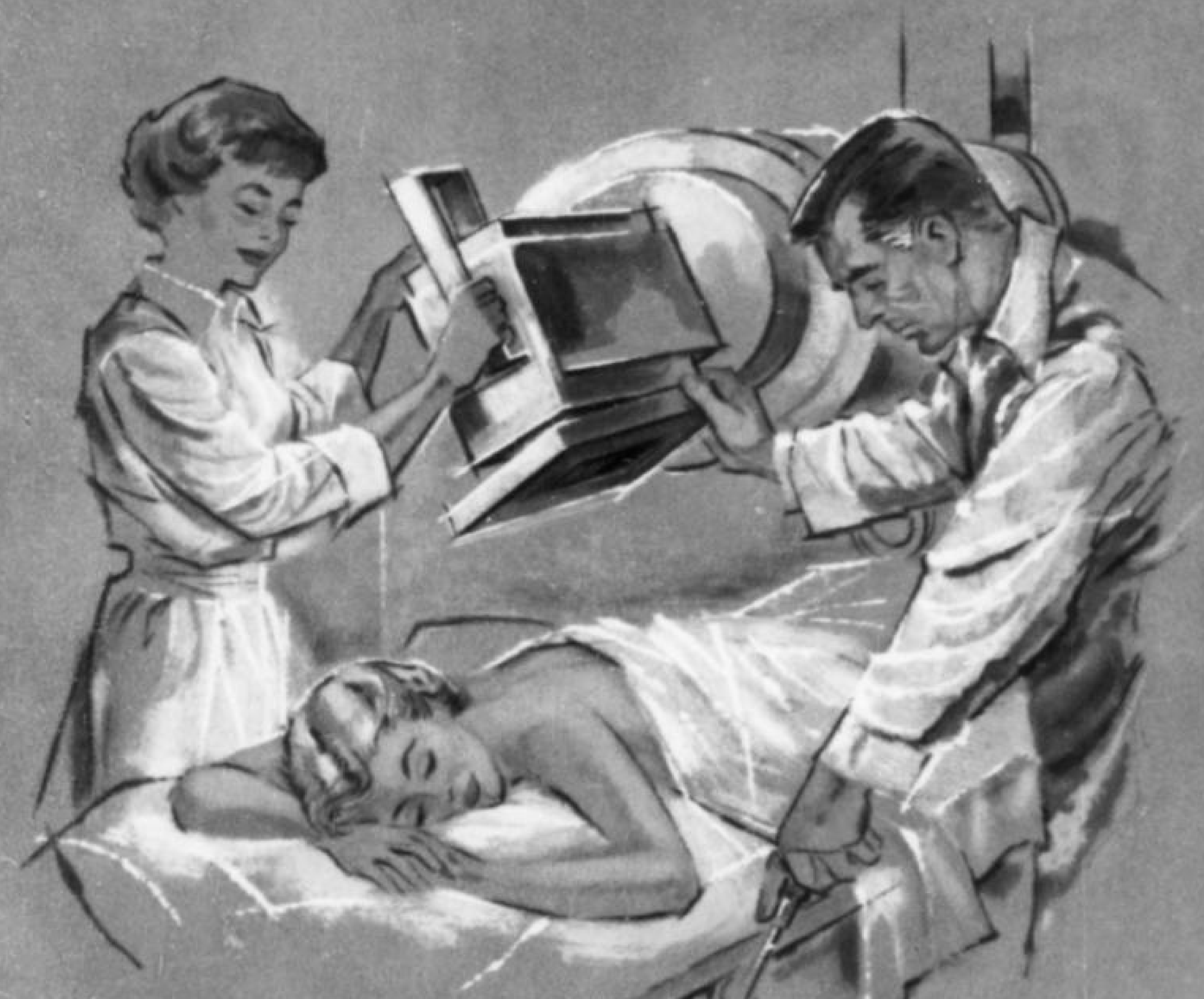
### MAXITRON 300

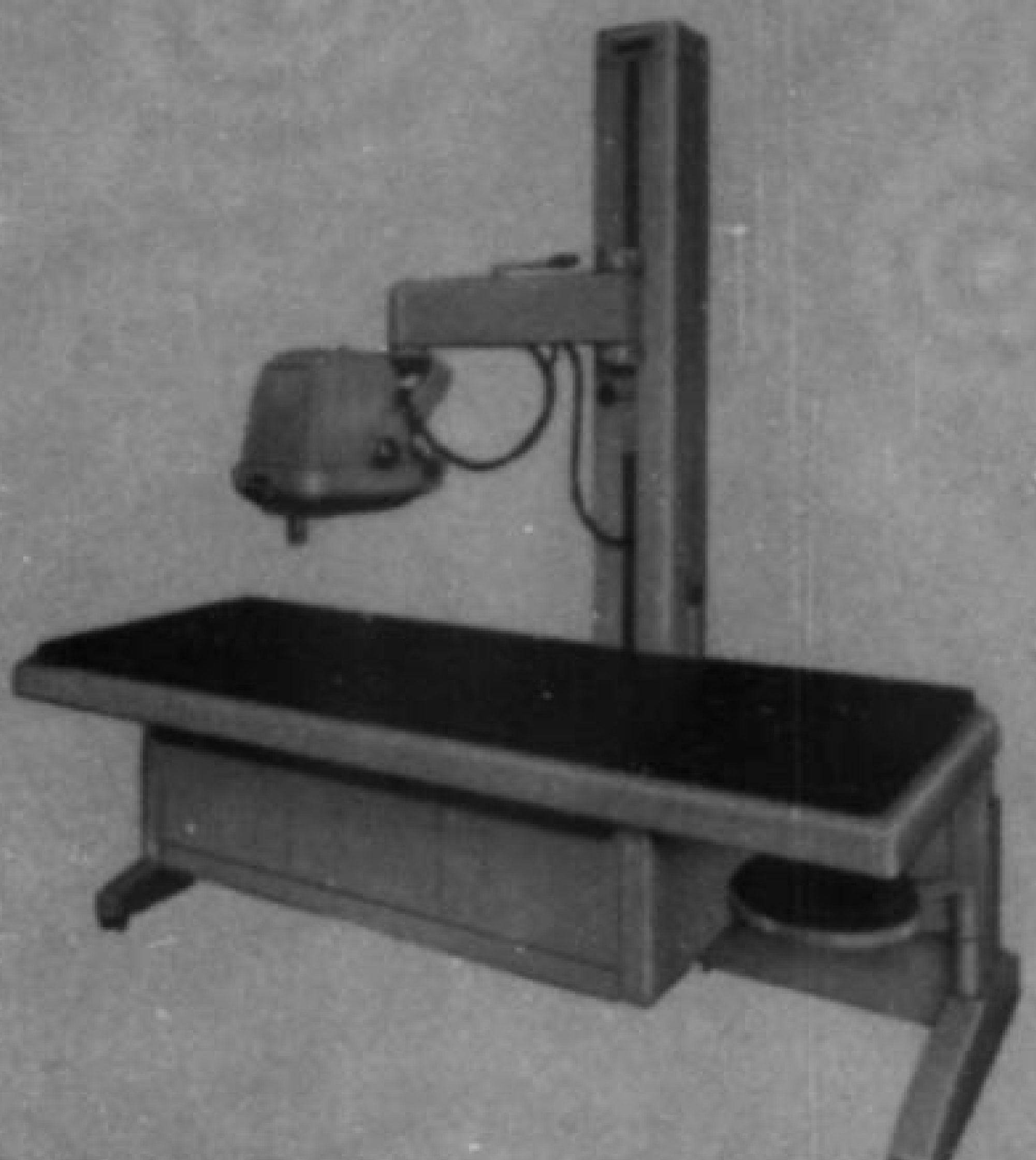
Deep to superficial technic . . . 100 to 300 kvp. Half-value layers ranging from 0.25 mm Al to 4 mm Cu. Dose rate and half-value layer can be dialed right from control console: correct filter positions itself, kvp and ma are preselected *automatically!*



### MAXIMAR 250-III

Deep to superficial therapy, at 80 to 250 kvp. Versatile performance and the proved capacity for continuous duty make this a favorite mainstay in many of today's busiest therapy centers. *Requires only 3¼ sq. ft. of floor space.*





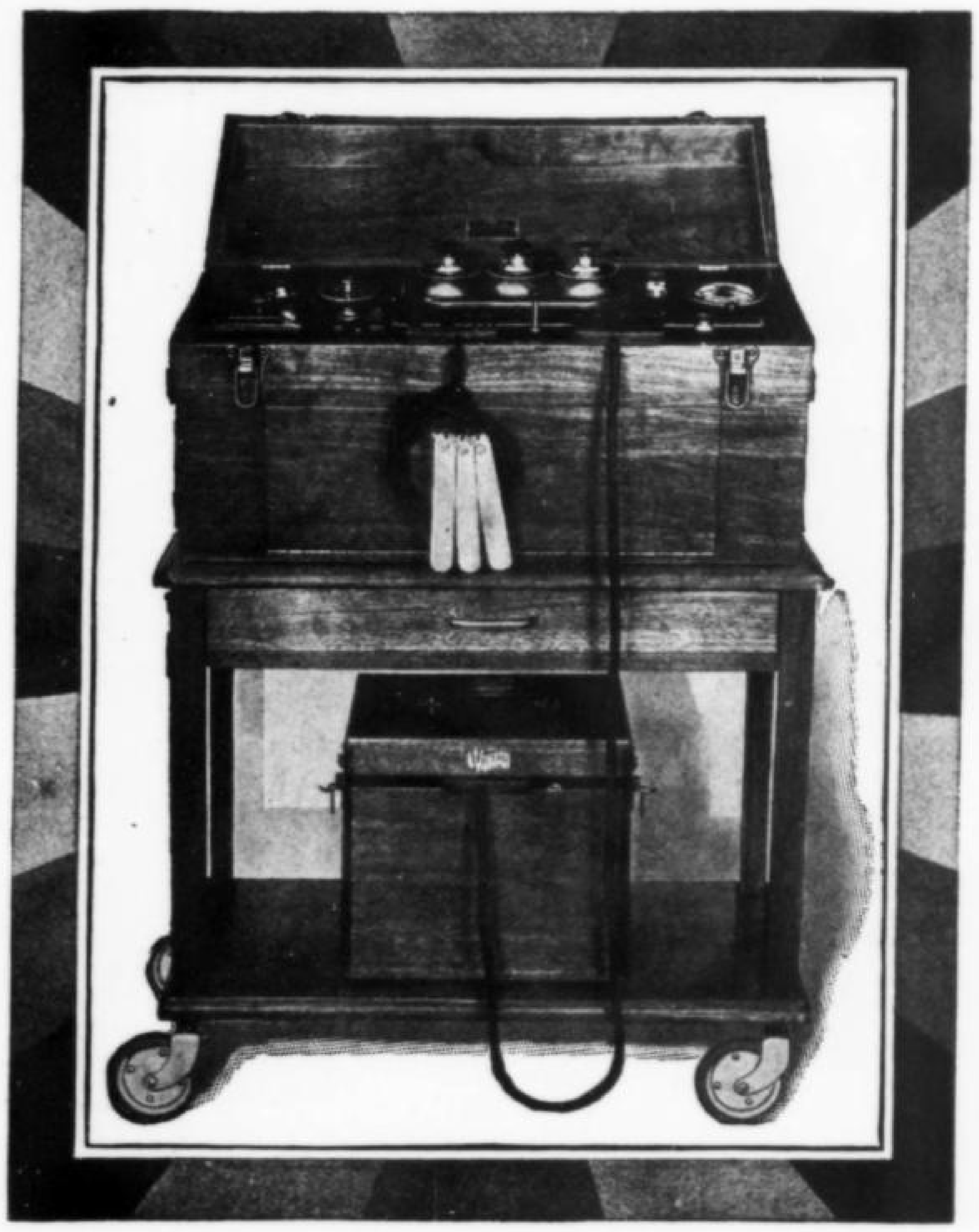
### MAXIMAR 100

Superficial therapy . . . output from near grenz rays to that obtained at 100 kvp. *More than 5000-r per minute at 15-cm fsd* . . . up to 84% absorption in first 4 mm of tissue. Coverage at 30-cm fsd spans 18-cm circle; dose rate at edge of circle is within 80% of central axis dose rate.

Maximar and Maxitron are G.E. registered trademarks.

Litho in U.S.A.

# *Victor Electrocardiograph the Choice of over 500 Institutions and Specialists*



**Wide acceptance of a radically new design, in the short space of four years, is significant.**

IT is only four years since the Victor Electrocardiograph was announced. It was a radical departure from the general principles of design that had prevailed in instruments used in cardiology for twenty-five years.

We as manufacturers conceded then that, while we believed implicitly in the definite advantages which this new instrument offered, yet it might be years before a full appreciation of these advantages by the profession could be realized.

But the fact is that in these four years over five hundred institutions and specialists have selected the Victor instrument. They have learned that it is simple to operate, that it produces reliable records consistently, without requiring skill and long experience. An office assistant or nurse can learn how to apply it with an hour's instruction.

By the use of thermionic amplifiers, the heart voltage is amplified before it reaches the galvanometer. Result, a more rugged galvanometer is used, there is no "overshooting," the operator has positive control, and accurate records are obtained quickly, patient after patient, as a matter of routine.

There is every logical reason why you should know all about the Victor Electrocardiograph, in your consideration of an instrument for heart study. You will find much of pertinent interest in our Bulletin No. 275. Write for it.

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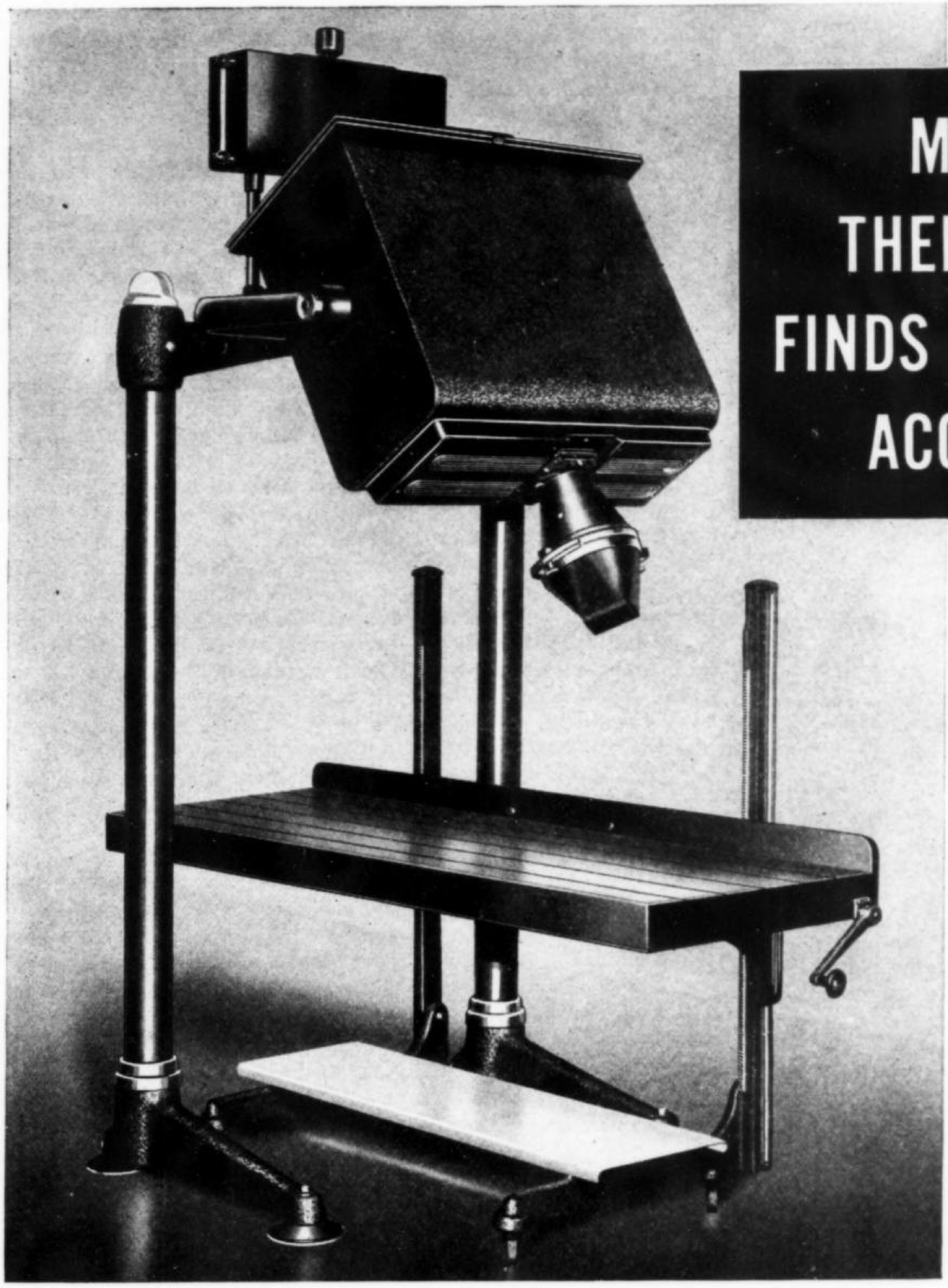

# MAXIMAR THERAPY UNIT FINDS WORLD-WIDE ACCEPTANCE

IT is only ten months since the first G-E Maximar 200-kv. Therapy Unit was installed.

That the x-ray profession was awaiting this radically new development is proved conclusively by the record of immediate world-wide acceptance. Today you find Maximars in use not only in all sections of the United States and Canada, but also in England, India, Argentina, Brazil, Mexico, Puerto Rico, Hawaii, Cuba, China, and Czechoslovakia.

If you, too, face the problem of small available space, or limited funds, for x-ray therapy facilities, you'll find the Maximar a thoroughly practical solution. A room only ten feet square will accommodate it, and the comparatively small investment required places it well within your means.

Its unusually high efficiency in x-ray output with the new G-E three-element Coolidge tube, shockproof operation with complete oil-immersion of all high voltage parts, flexibility and simplicity in application—are reasons why the Maximar is the apparatus of choice for a strictly modern and economic therapy service.

Today every community expects x-ray therapy service to be conveniently accessible. You can make it so with a Maximar. Investigate without obligation—write Dept. F31 for Publication 7A-83.

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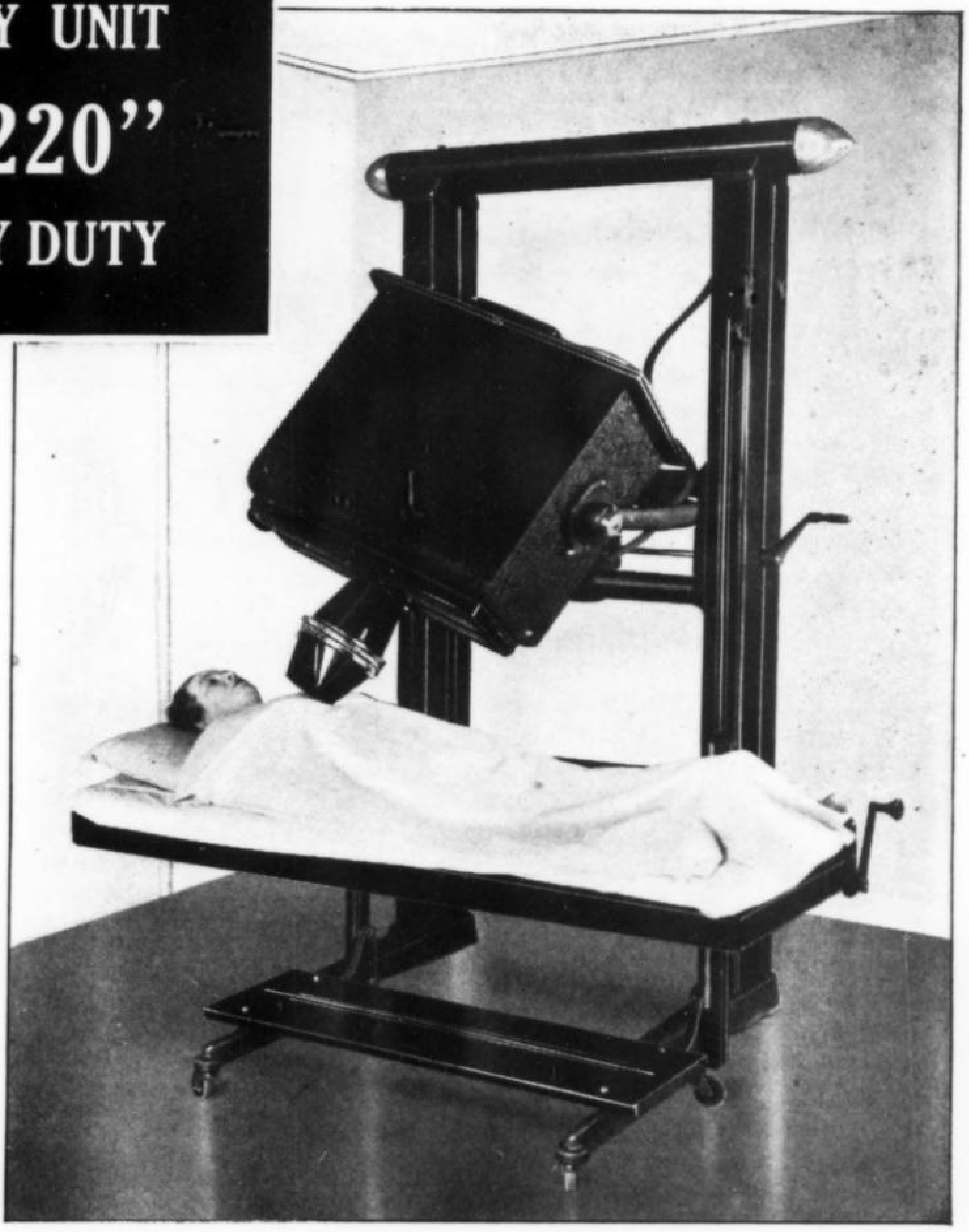
## A NEW G-E THERAPY UNIT
# MAXIMAR "220"
## DESIGNED FOR HEAVY DUTY



***High X-Ray Output*** – operating at 15 ma., it is equal to that of the bulky, less flexible, 200 kv. equipment of yesterday, operating at 25 ma.

***For all-day operation*** – continuous at full ratings if desired. Constant circulation of oil through the tube anode and transformer tank makes this possible.

***Low Inherent Filtration*** permits use of special filters to increase intensity at the higher voltages.

***Ideal for intermediate therapy, too,*** with high intensity of long-wave radiations at the lower voltages.

***Unusually flexible in application,*** because the tube head can be adjusted vertically, also rotated about its horizontal and vertical axes, to direct the radiation most advantageously to the treatment area.

● Here's a moderately priced, 220 kv. unit with the capacity and range for a larger volume of work. With it you can treat more patients per day, more economically, and operate on a convenient schedule. It's the logical unit with which to meet the increasing demands on your treatment facilities.

Completely oil-immersed, shockproof, dustproof, moisture-proof, impervious to climatic changes, space-saving, simplified controls, reliable performance and economical operation—are more reasons why this most recent addition to the well-known "Maximar" series has a definite role in the busier laboratory.

***Without obligation,***
***write for complete information***
***–Pub. F31***

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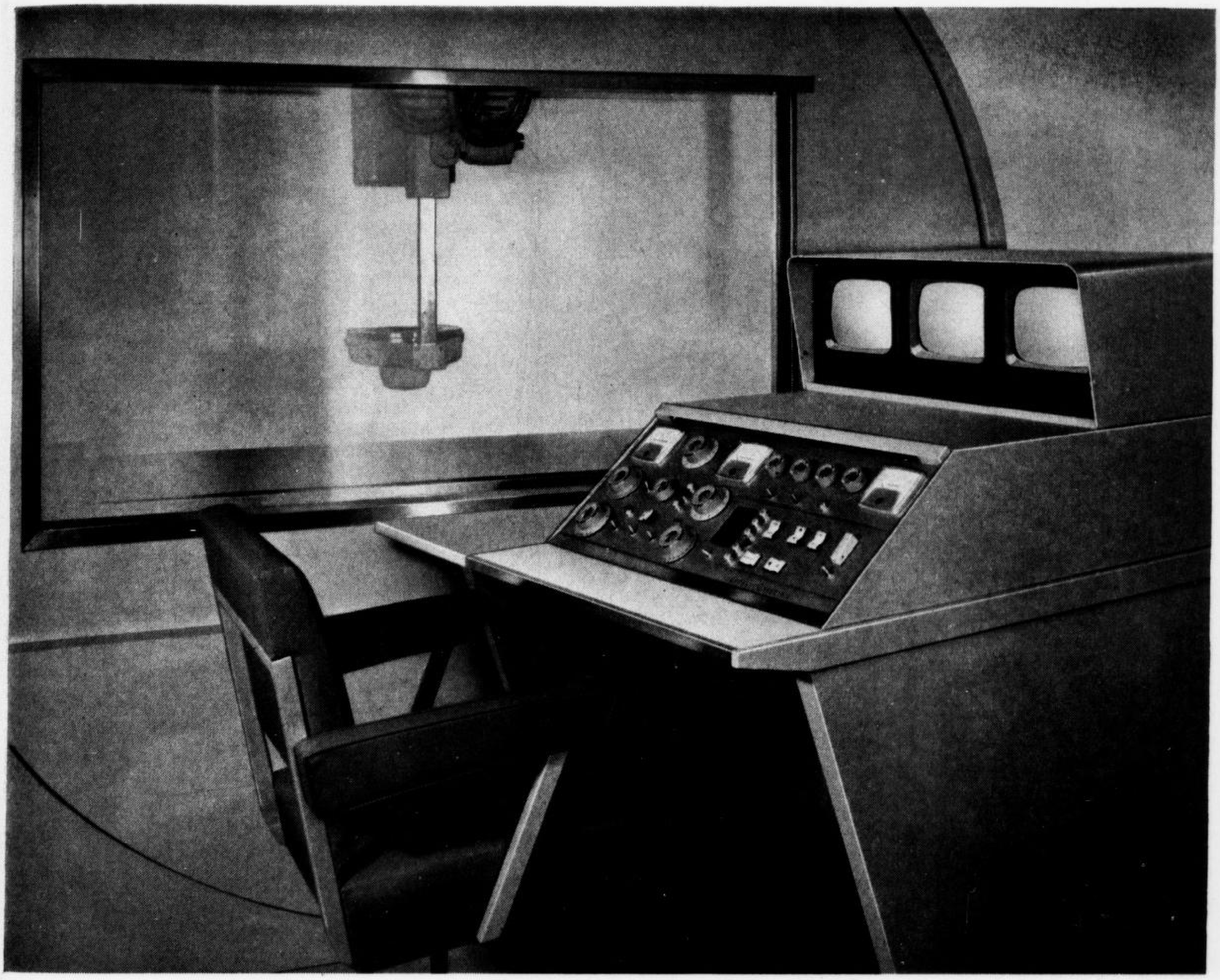

...the future of x-ray awaiting your touch

Imagining himself at the controls of TELETROL, the radiologist will quickly realize that here remote control does not make him "remote" from the patient. Actually there is far less confusion and tension, now that darkness and protective clothing are unnecessary. Doctor and patient have direct visual contact at all times through the wide protective window that rotates with the table. Conversation is by intercom.

And obviously the elimination of delays for dark adaption and the lessening of physical strain on the radiologist promote greater comfort and efficiency.

Meet the future of x-ray today in TELETROL. Investigate its far-reaching potentials. Your G-E x-ray representative has complete information and can quote on your requirements. Or you can write to X-Ray Dept., General Electric Co., Milwaukee 1, Wis., Room 1102.

*Progress Is Our Most Important Product*

**GENERAL ELECTRIC**

# *Now! a Super-Power Diathermy Apparatus*

**With a power output considerably greater than that of any other diathermy apparatus, making it also adaptable for the production of therapeutic fever.**

THE wide adoption of diathermy by the profession in recent years is evidence that the use of this energy for the purpose of creating heat within the body has proved an effective therapeutic measure in many conditions.

Now medical science has found still another valuable use for diathermy, namely, for producing therapeutic fever (pyretotherapy). The method is simply that of raising the body temperature to any desired degree by means of the high frequency current in great volume. Temperature curves are produced without having to inject disease-producing organisms or toxic substances into the patient's circulation. According to authority,* "there is every reason to believe that this form of treatment will be useful in any of the many diseases where pyretotherapy is indicated."

The Victor Super-Power Diathermy Apparatus meets every need in medical diathermy up to the present, and has a tremendous reserve power which assures the most satisfactory results in the more recent technics involving increased requirements for pyretotherapy.

If you desire a diathermy machine that will cover this entire range, the Victor Super-Power will prove a judicious investment. Write for further details.

*King, J. Cash, and Cocke, Edwin W.: Therapeutic Fever Produced by Diathermy, with Special Reference to its Application in the Treatment of Paresis. South. Med. Jour., Mar., 1930.

See also Illinois M. J., LVI:3:203, Sept. 1929, "Artificial Fever Produced by High Frequency Currents—Preliminary Report." By Clarence A. Neyman, A.B., M.D., and S. L. Osborne, B.B.E.

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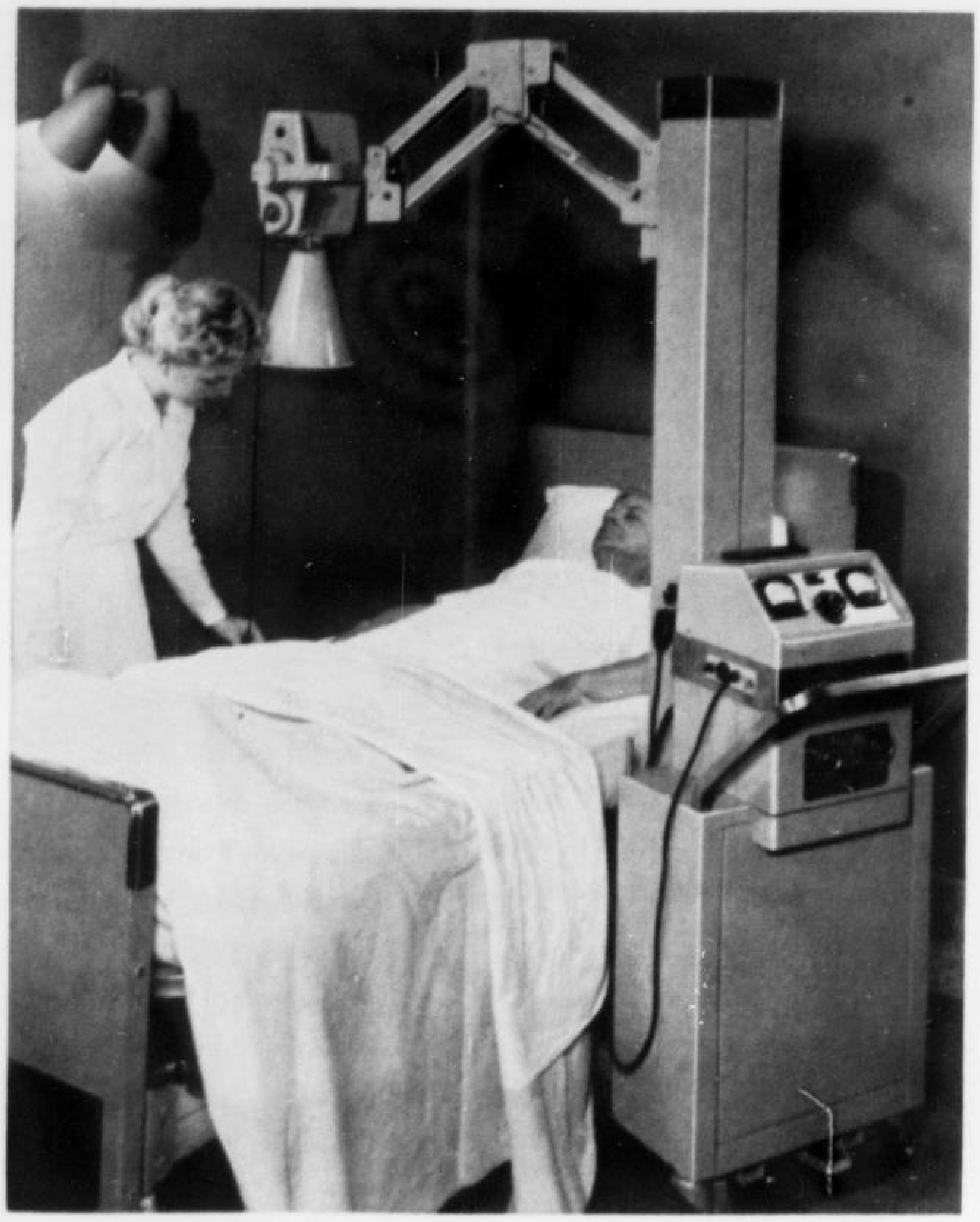
# Now! Unprecedented convenience for bedside radiography



## New G-E MOBILE "90"

### featuring electronic timing for split-second accuracy

WHEN you need definitive radiographs of bedfast patients, you need General Electric's new Mobile "90". Here's a "roll-anywhere" x-ray unit with many features usually found only on major apparatus:

- electronic timer assures split-second accuracy
- 1.5-mm effective focal spot adds sharper definition
- output of up to 90 kvp at 15 ma provides the penetration you need for dense anatomical parts
- compact, bracket-mounted tubehead makes positioning easier, especially around traction frames.

For emergencies . . . for special technics . . . for expediting heavy patient loads right in the x-ray department — you'll use the Mobile "90" to solve many problems. Plugs into ordinary wall outlets — provides x-ray facilities wherever needed.

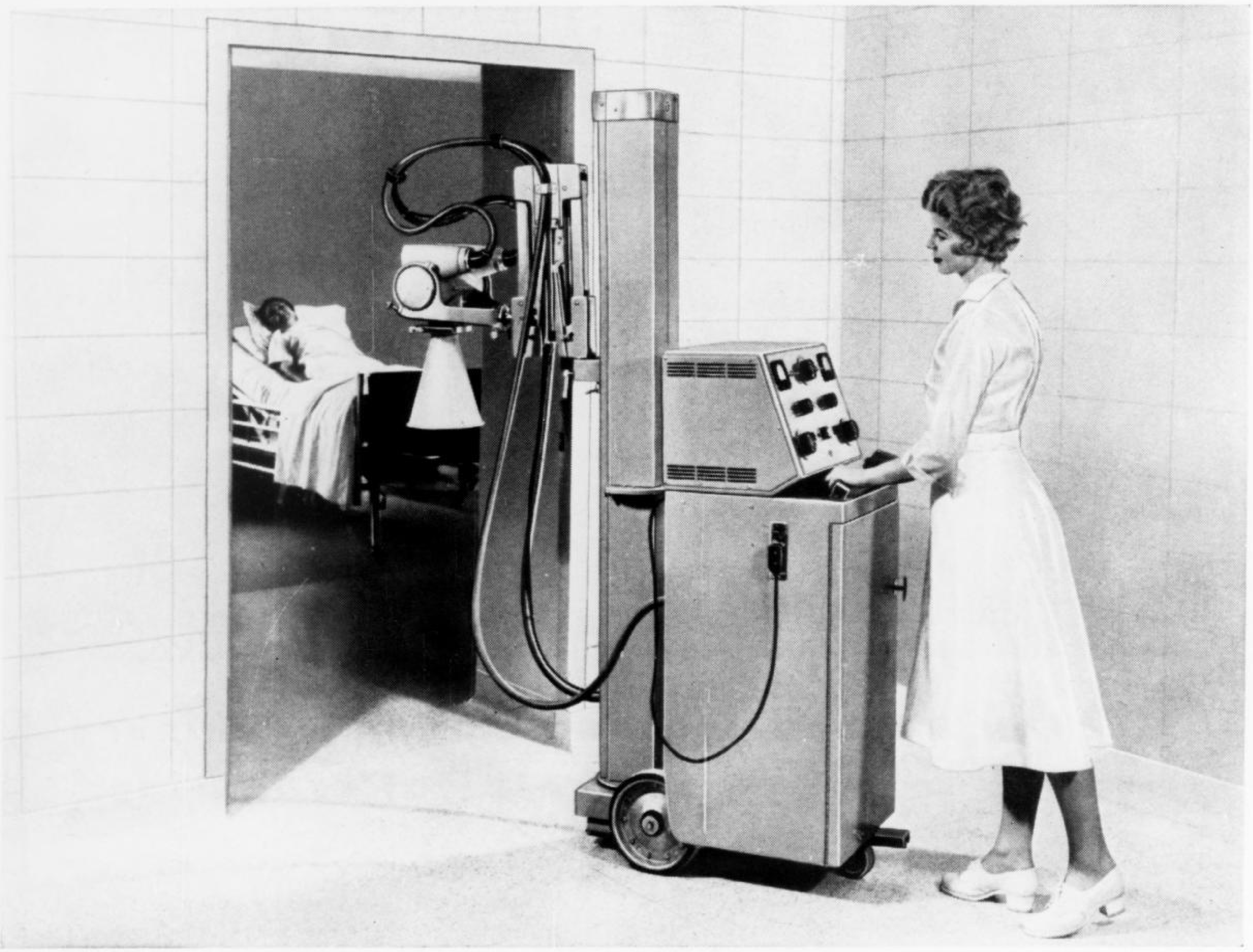
Contact your G-E x-ray representative for further details and copy of new illustrated bulletin. Or write X-Ray Department, General Electric Company, Milwaukee 1, Wisconsin, for Pub. **L-51.**

Mobile "90" reaches 37¾ inches . . . has 63-inch actual vertical travel — from near floor level to as great as 68-inch target-to-floor distance. Rugged frame provides exceptional stability. Has built-in compartmented cassette carrier. With bracket contracted, unit is easily moved floor-to-floor — well within limits of restricted overheads.

*Progress Is Our Most Important Product*

**GENERAL ELECTRIC**

# NEW MOBILE "200" | *a General Electric x-ray unit in step with your progress*



# NOW! A full-range x-ray unit for bedside radiography

Here's the power of a fixed x-ray installation plus complete mobility. With the new General Electric Mobile "200" you get all these features:

- *Full 200-ma, 100-kv output.*
- *Identical components, circuits and controls to those in major x-ray apparatus.*
- *Easy-rolling, rubber-tired movement* that puts full x-ray power at any point in the hospital.
- *Operation from wall outlets*—Any adequate 230-volt line will do. You can also work from 115 volts at reduced power.

With every feature essential to modern radiography, the Mobile "200" will prove a real asset in improving the quality of service and expediting case handling. Even within the x-ray department, it's an ideal standby unit when heavy loads swamp existing facilities.

Get full details from your G-E x-ray representative. Or write X-Ray Department, General Electric Company, Milwaukee 1, Wisconsin, for Pub. L-101.

*Progress Is Our Most Important Product*

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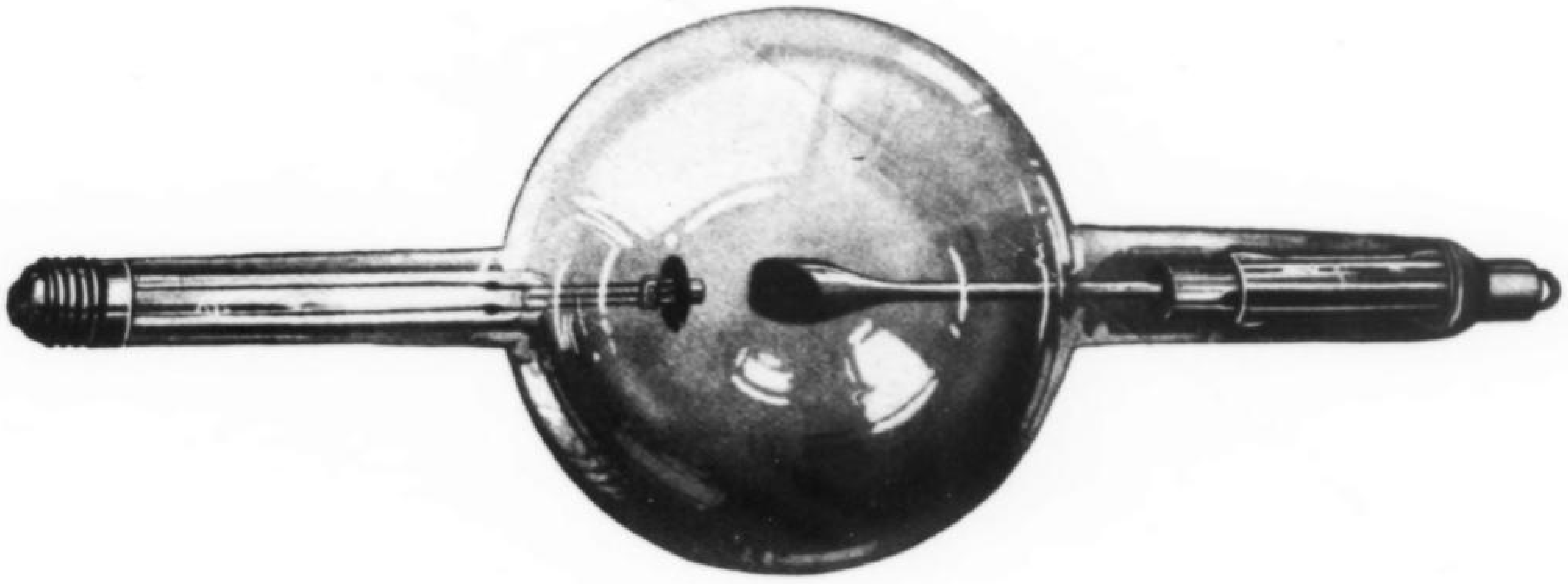


# The Coolidge X-Ray Tube

is the result of developments along scientific lines in the research laboratory of the General Electric Company.

Throughout the progress of all investigations the exacting needs of the roentgenologist have been considered.

The simplicity, flexibility of control, and long life of Coolidge X-Ray Tubes is the result.

Coolidge tubes are furnished with three sizes of focal spots:

*Fine* for fluoroscopy and the best radiographic work where heavy currents are not required.

*Medium* for general radiographic work.

*Broad* for therapy and for the most rapid radiographic work which requires heavy currents.

Coolidge X-Ray Tubes will be exhibited at the coming meeting of the American Medical Association.

More information concerning the tube can be obtained by writing to our Schenectady office.

# General Electric Company

**General Office: Schenectady, N. Y.**

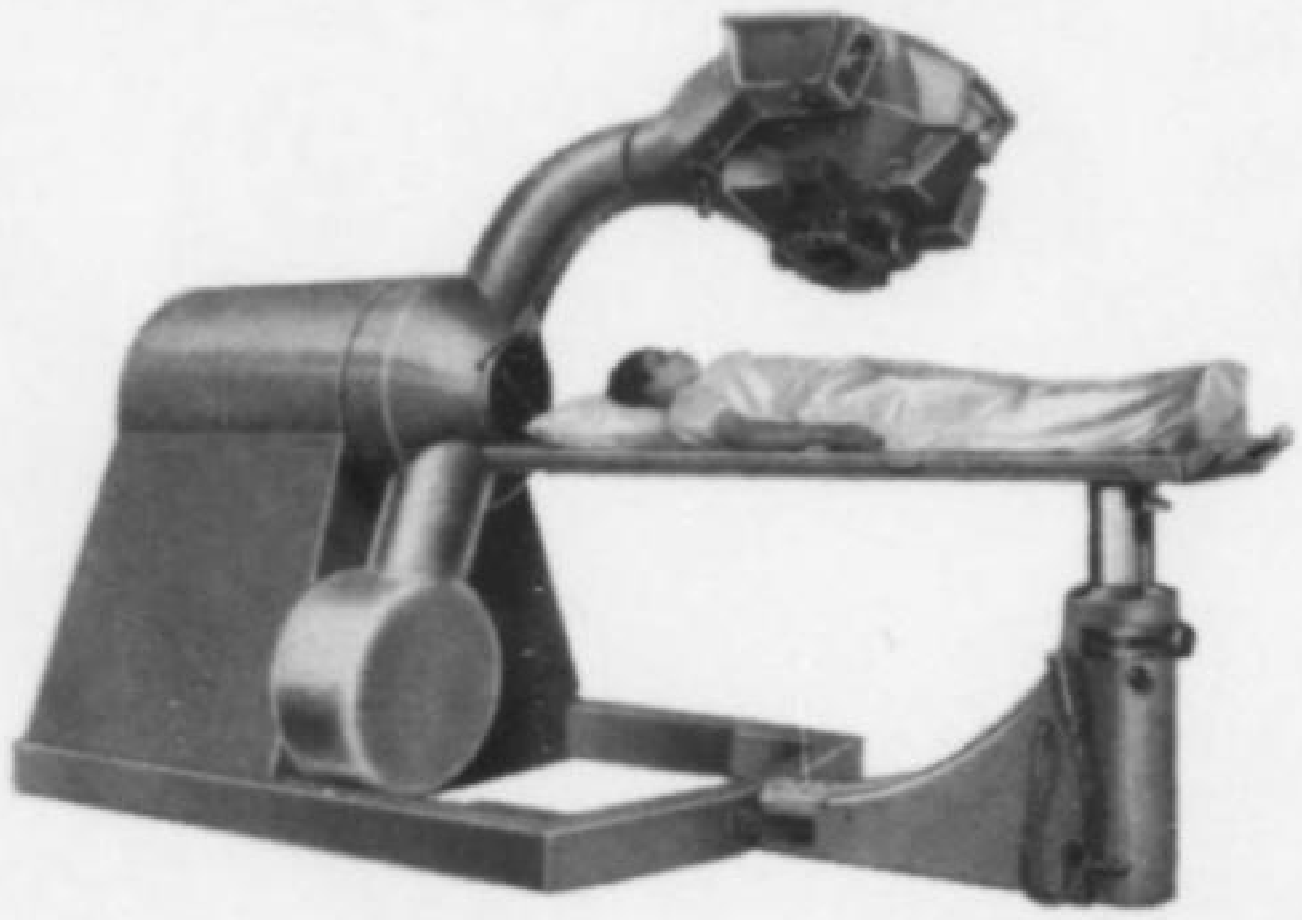
**Sales Offices in All Large Cities**

7075

# ISOTOPE TELETHERAPY

# Select from seven cobalt and caesium units

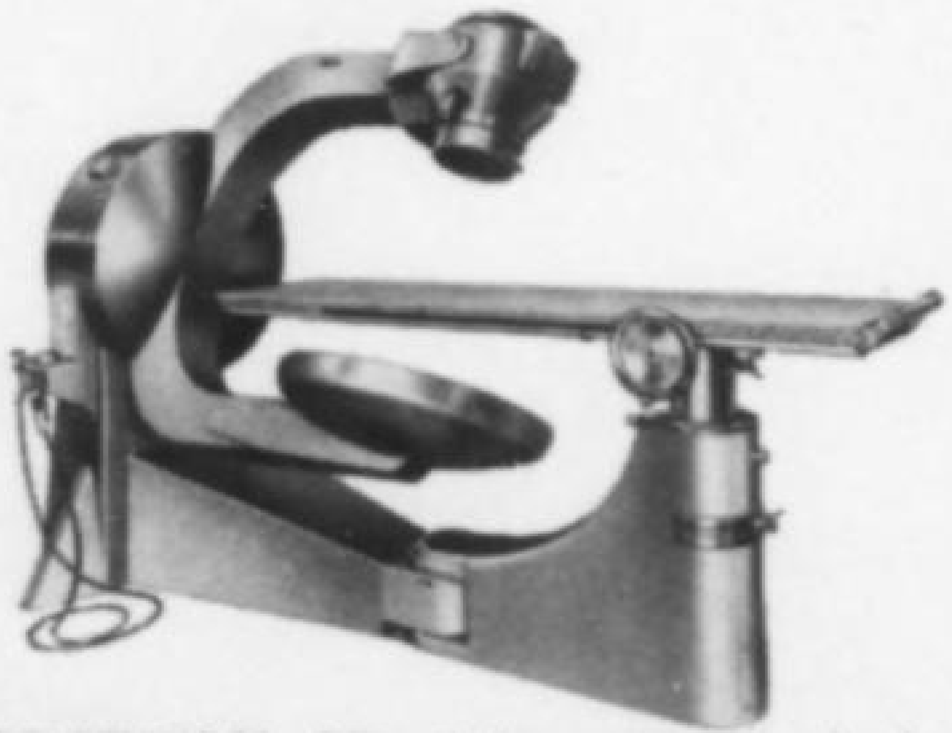
General Electric sells, installs *and services* a complete range of AECL isotope teletherapy equipment, capable of technics from conventional fixed-beam irradiation to complex rotational patterns. All have fail-safe shutters that close automatically in event of power failure.



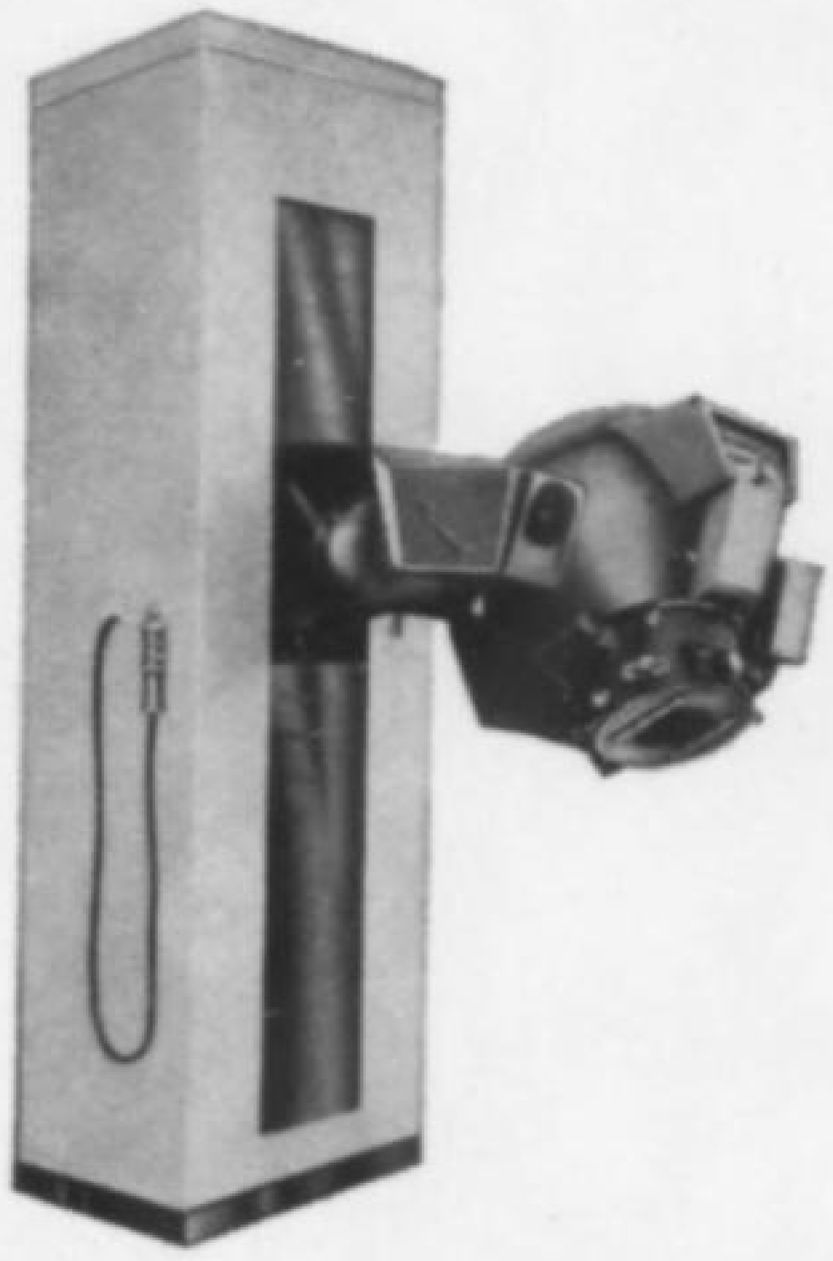
**THERATRON F (shown)**—200 r/m/m maximum cobalt-60 source capacity. For fixed- and moving-beam teletherapy.

**THERATRON B**—165 r/m/m maximum cobalt-60 source capacity. Fixed- and moving-beam capabilities.

**THERATRON C-II**—50 r/m/m maximum cobalt-60 source capacity. For both fixed- and moving-beam technics.



**THERATRON JR. (shown)**—50 r/m/m maximum cobalt-60 source capacity. Fixed- and moving-beam teletherapy provisions.



**ELDORADO SUPER G (shown)**—200 r/m/m maximum cobalt-60 source capacity. For fixed-beam teletherapy.

**ELDORADO G**—50 r/m/m maximum cobalt-60 source capacity. Fixed-beam teletherapy unit.

**CAESATRON (shown)**—1300-curie caesium-137 source capacity. Fixed-beam technic.

- *See your G-E x-ray representative for complete details on equipment for x-ray and isotope therapy. Or write X-Ray Department, General Electric Company, Milwaukee 1, Wisconsin, Room 1009.*

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***For additional information, use postcard facing back cover.***